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## THE DISTRIBUTION OF MALARIA IN THE UNITED STATES AS INDICATED BY MORTALITY REPORTS.<sup>1</sup>

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The initiative for measures of suppression of malaria rests primarily with the State health officers in the territory concerned. The proportion of their administrative effort devoted to this disease is predicated, in part, upon knowledge as to the—

- (a) Distribution of malaria throughout the States;
- (b) The relative importance of the problem in each State; and
- (c) The natural trend (increase or decrease) of the disease in each State.

The purpose of this paper is to present the information on these points that is to be derived from an analysis of reported deaths.

Mortality statistics furnish the only means of measurement at present available to indicate the prevalence of this disease on a common basis in all the States involved,<sup>2</sup> and it is only within the last three or four years that they have become sufficiently complete to render them of comparative value. Five of the 15 States represented in this study are not yet in the registration area for deaths, but some of these no doubt soon will be. As reporting becomes more complete and medical diagnosis more exact, this source of information will become of increasing value. The results of an analysis at this time are tentative and may be considerably modified when data have been accumulated for a longer period of time.

<sup>1</sup> From Field Investigations of Malaria, United States Public Health Service.

<sup>2</sup> EDITORIAL NOTE.—In his approach to the problem, the author deals only with mortality data. It seems pertinent, however, to emphasize the fact that the real importance of malaria as a burden upon the public is not reflected in the mortality returns, however useful these may be in indicating the intensities of the geographic distribution. The economic significance of malaria in areas where it seriously prevails is disproportionately great in comparison with the actual loss of life attributed to this disease. The statement is probably true that malaria is the only disease of man (possibly excepting the African sleeping sickness) which can reach such proportions as to render an area actually uninhabitable. Fortunately, malaria does not exist in such intensity anywhere in the United States, but in certain areas it does act as a very potent deterrent of human endeavor and progress.

## (A) THE DISTRIBUTION OF MALARIA THROUGHOUT THE STATES.

Common opinion holds that malaria is a disease generally distributed throughout the South. Although this may have been a generalization which was justified some years ago, those who have had opportunity to observe more closely in recent years are aware that the disease is becoming more and more restricted to certain localities, and that there are now large areas of land in the South which are relatively or entirely free from malaria. Moreover, where malaria still exists, its intensity varies. In some areas there is only a *low incidence*—an occasional imported case causing a local outbreak which quickly dies out. The disease does not survive the winter uniformly, but is repeatedly reintroduced from neighboring foci. A large majority of the population escapes the infection. In other areas there is a *moderate amount* of malaria. The density of *Anopheles quadrimaculatus* is sufficiently great and the number of unprotected human beings sufficiently large to form a carrier reservoir. The infection is propagated throughout the winter, year after year; but in any one year only a small proportion of the total population is affected. Finally, there are certain areas of *high prevalence*, where a considerable proportion of the population has the disease each year. Nowhere in this country, as far as information is at present available, does the disease reach the intensity which it manifests in certain tropical countries.

Within certain limitations, the reported deaths from malaria should furnish a rough indication of this uneven distribution of the disease in this country. The case fatality rate of malaria is low, about 0.5 per cent. A considerable number of cases may occur during the period of a year in a given locality without a death. On the other hand, many counties which are known to have no malaria problem may show one or several deaths from malaria during the period of a year, to be explained as cases imported from near-by or remote foci, or as inaccuracies in assigning the cause of death. For these reasons, a *low* mortality rate based on a single year is of no value; based on a series of years it is still of questionable significance. Mortality statistics can not be safely relied upon to show counties where the prevalence of malaria is *low*. Counties with a *moderate* or *high* incidence, on the contrary, should give evidence of this fact in showing a considerable number of deaths *attributed* to malaria year after year with more or less regularity.

For most of the States concerned, figures are now available which show the number of deaths from malaria reported by each county for at least the three years ended in 1921. In Table I the figures for each county have been averaged for this three-year period and then expressed in a ratio to the population. All counties having a *rate of*

1 per 10,000 population or less have been omitted, because rates as low as this are of questionable significance. Those counties having

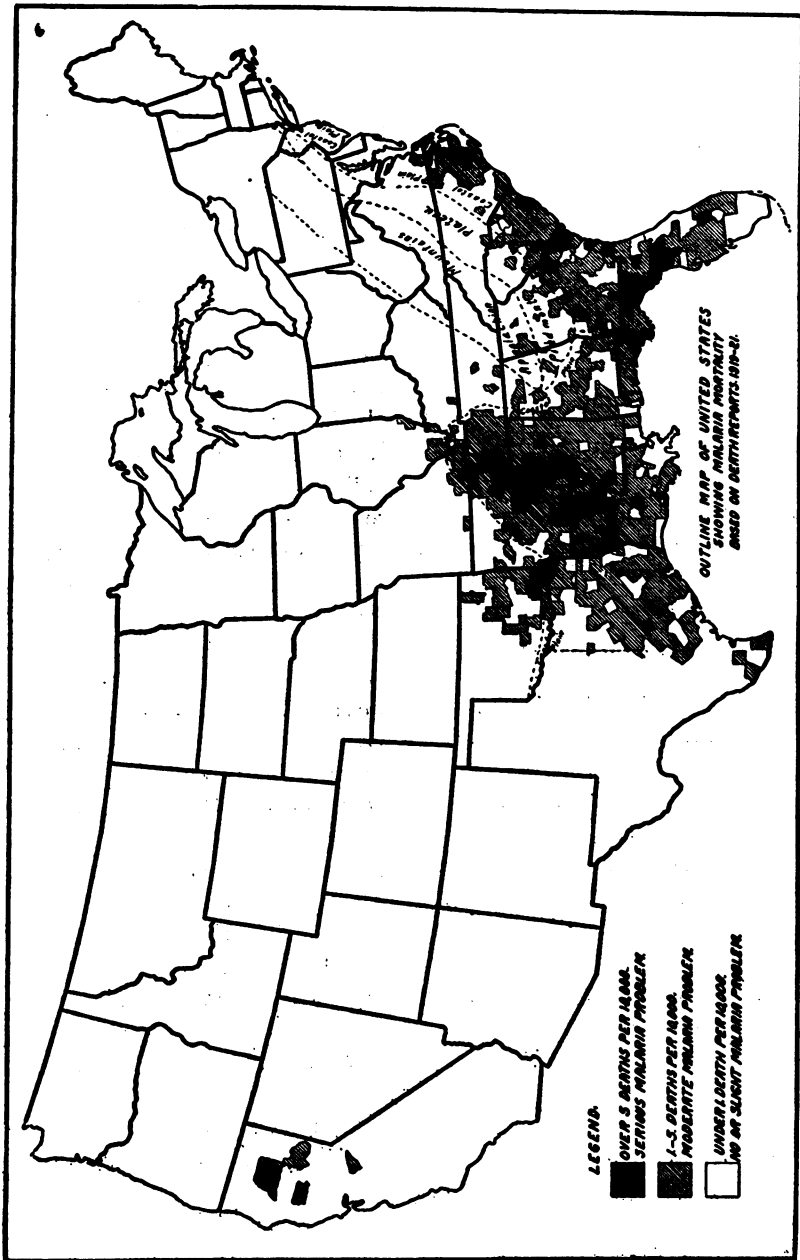


FIGURE 1.

an average rate of 5 per 10,000 population or more are indicated by an asterisk (\*). This is an arbitrary separation of the counties with high from those of only moderate prevalence.

In Table II are shown the mortality rates for the counties of Georgia and Oklahoma. These were available only for the one year, 1921. The rates shown are consequently not as valuable as those of the States in Table I.

The data given in these two tables are presented in graphic form in Figure 1, showing the distribution of counties in the United States having a moderate or high incidence of malaria as indicated by mortality rates. This map does not show many counties with a low incidence and, therefore, does not present the complete picture of malaria distribution in this country. This deficiency is particularly noticeable in such States as Maryland, Virginia, Kentucky, and California. On the other hand, it contains many valuable suggestions.

It will be noted that malaria in the United States is largely confined to the Coastal Plain. In the East its extension is limited by the unfavorable topography of the Piedmont and mountain regions. It extends far up the broad, flat, Mississippi Valley, where it reaches its widest distribution. In the West its progress is checked by the arid plains of western Oklahoma and Texas.

TABLE I.—*List of counties having a malaria mortality rate in excess of 1 per 10,000 population for the three-year period 1919–1921, indicating a moderate to high incidence of the disease for that period.*

[Rates indicating a high incidence are marked by an asterisk (\*).]

ALABAMA.		ARKANSAS.		ARKANSAS—continued.		FLORIDA.	
County.	Rate.	County.	Rate.	County.	Rate.	County.	Rate.
Autauga.....	1.1	Arkansas.....	*6.5	Lincoln.....	4.3	Alachua.....	4.1
Baldwin.....	1.5	Ashley.....	*10.3	Little River.....	*11.6	Baker.....	3.5
Barbour.....	2.2	Bradley.....	*5.0	Logan.....	1.2	Bay.....	*6.2
Bibb.....	1.3	Calhoun.....	*10.0	Lonoke.....	*11.1	Bradford.....	2.4
Bullock.....	1.6	Cheest.....	3.7	Miller.....	4.6	Calhoun.....	*5.7
Choctaw.....	1.9	Clark.....	2.7	Mississippi.....	*9.1	Citrus.....	*15.3
Clarke.....	1.1	Clay.....	*7.3	Monroe.....	*8.8	Columbia.....	3.5
Colbert.....	1.6	Cleburne.....	2.4	Nevada.....	1.4	De Soto.....	2.0
Crenshaw.....	1.3	Cleveland.....	2.4	Ouachita.....	4.3	Duval.....	1.2
Dale.....	1.3	Conway.....	*8.9	Perry.....	*7.1	Escambia.....	1.2
Dallas.....	1.8	Craighead.....	4.3	Phillips.....	*7.0	Franklin.....	2.0
Genova.....	3.1	Crawford.....	2.3	Poinsett.....	*15.9	Gadsden.....	4.7
Greene.....	2.8	Crittenden.....	*5.1	Polk.....	1.8	Hamilton.....	*5.0
Hale.....	3.3	Cross.....	*5.4	Pope.....	1.5	Hernando.....	4.4
Henry.....	1.9	Dallas.....	4.2	Prairie.....	*10.3	Hillsborough.....	1.6
Houston.....	4.0	Desha.....	1.5	Pulaski.....	4.0	Holmes.....	4.7
Lamar.....	1.1	Drew.....	3.2	Randolph.....	1.7	Jackson.....	*10.6
Lawrence.....	1.6	Faulkner.....	4.0	Saline.....	1.8	Jefferson.....	*14.5
Lowndes.....	1.6	Garland.....	3.9	Sovier.....	*6.0	Lafayette.....	*17.6
Macon.....	1.3	Grant.....	4.0	St. Francis.....	*5.7	Lake.....	3.9
Marengo.....	1.7	Greene.....	1.5	Union.....	2.0	Leon.....	*11.1
Monroe.....	1.4	Hempstead.....	3.2	White.....	3.2	Levy.....	*15.0
Montgomery.....	1.2	Hot Spring.....	2.3	Woodruff.....	3.3	Liberty.....	4.0
Morgan.....	1.7	Independence.....	1.7	CALIFORNIA.		Madison.....	*10.0
Perry.....	1.6	Jackson.....	7.5	Calaveras.....	1.6	Manatee.....	2.6
Pickens.....	2.4	Jefferson.....	3.1	Glenn.....	1.7	Marion.....	*6.3
Talladega.....	1.7	Lafayette.....	3.2	Plumas.....	1.8	Nassau.....	2.6
Walker.....	1.2	Lawrence.....	1.8	Shasta.....	3.7	Okaloosa.....	2.1
Washington.....	1.4	Lee.....	*5.2			Okeechobee.....	*9.4

TABLE I.—List of counties having a malaria mortality rate in excess of 1 per 10,000 population for the three-year period 1919–1921, indicating a moderate to high incidence of the disease for that period—Continued.

FLORIDA—continued.		LOUISIANA—continued.		MISSISSIPPI—continued.		NORTH CAROLINA.	
County.	Rate.	Parish.	Rate.	County.	Rate.	County.	Rate.
Orange.....	2.5	Lincoln.....	2.4	Jefferson.....	*5.0	Beaufort.....	*5.8
Palm Beach.....	1.6	Madison.....	4.6	Jefferson Davis... 1.6		Bertie.....	2.1
Polk.....	2.3	Morehouse.....	*10.9	Jones.....	1.8	Brunswick.....	2.0
Putnam.....	2.0	Natchitoches.....	*8.5	Kemper.....	1.5	Carteret.....	1.9
St. Lucie.....	1.3	Ouachita.....	*7.6	Lafayette.....	3.6	Columbus.....	1.3
Santa Rosa.....	1.5	Plaquemines.....	1.1	Lauderdale.....	2.6	Craven.....	*7.6
Sumter.....	*6.4	Pointe Coupee.....	2.4	Lawrence.....	3.2	Cumberland.....	2.0
Suwanee.....	*8.6	Rapides.....	4.0	Leake.....	2.4	Currituck.....	1.4
Taylor.....	*17.8	Red River.....	3.9	Lee.....	1.4	Duplin.....	1.3
Wakulla.....	4.0	Richland.....	*9.1	Leflore.....	*10.0	Gates.....	1.9
Walton.....	1.7	Sabine.....	*6.3	Lincoln.....	1.6	Greene.....	1.2
Washington.....	2.5	St. Helena.....	1.2	Lowndes.....	1.8	Halifax.....	1.2
ILLINOIS.		St. John.....	2.5	Madison.....	2.4	Hyde.....	4.8
Alexander.....	2.5	St. Landry.....	*5.4	Marion.....	1.8	Jones.....	4.2
Gallatin.....	3.1	St. Martin.....	2.3	Marshall.....	2.7	Lenoir.....	1.4
Hardin.....	2.7	St. Mary.....	2.3	Monroe.....	2.2	Martin.....	1.9
Jackson.....	2.9	St. Tammany.....	1.5	Montgomery.....	2.9	New Hanover.....	1.5
Johnson.....	1.7	Tangipahoa.....	1.6	Neshoba.....	3.1	Northampton.....	4.3
Pulaski.....	2.7	Tensas.....	*7.5	Newton.....	1.5	Onslow.....	4.8
Union.....	2.0	Terrebonne.....	1.1	Noxubee.....	3.0	Pamlico.....	*10.0
Wabash.....	1.4	Union.....	*6.6	Oktibbeha.....	1.8	Pasquotank.....	1.1
Williamson.....	1.3	Vermilion.....	1.5	Panola.....	*6.5	Perquimans.....	1.8
KENTUCKY.		Vernon.....	1.5	Pearl River.....	1.3	Pitt.....	1.3
Carlisle.....	1.2	Washington.....	1.7	Perry.....	2.2	Union.....	1.4
Fulton.....	*8.6	Webster.....	*5.3	Pontotoc.....	4.0	Washington.....	1.8
Henderson.....	1.5	W. Baton Rouge... 1.8		Quitman.....	*17.6	Wayne.....	1.6
McCracken.....	1.3	W. Carroll.....	*7.9	Rankin.....	4.0	SOUTH CAROLINA.	
Marshall.....	2.6	W. Feliciana.....	3.2	Scott.....	2.4	Aiken.....	1.3
Todd.....	1.3	Winn.....	4.4	Sharkey.....	*10.6	Allendale.....	*5.0
LOUISIANA		MISSISSIPPI.		Simpson.....	2.2	Bamberg.....	*5.5
(Parishes)		County.		Smith.....	1.9	Barnwell.....	1.3
Acadia.....	1.4	Adams.....	3.1	Sunflower.....	*10.9	Beaufort.....	*5.0
Allen.....	1.6	Alcorn.....	1.9	Tallahatchie.....	*9.2	Berkeley.....	4.0
Ascension.....	1.3	Amite.....	2.1	Tate.....	4.1	Calhoun.....	3.8
Assumption.....	1.1	Attala.....	2.4	Tippah.....	3.9	Charleston.....	3.2
Avoyelles.....	1.4	Benton.....	2.0	Tishomingo.....	2.0	Clarendon.....	1.1
Beauregard.....	3.9	Bolivar.....	*8.3	Tunica.....	*13.8	Colleton.....	3.7
Bienville.....	2.9	Calhoun.....	*5.3	Union.....	4.0	Dorchester.....	2.6
Bossier.....	2.3	Carroll.....	*5.9	Warren.....	*7.8	Edgefield.....	1.3
Caddo.....	*5.0	Chickasaw.....	2.7	Washington.....	4.3	Florence.....	2.0
Calcasieu.....	2.1	Claiborne.....	4.6	Wayne.....	2.6	Georgetown.....	*6.5
Caldwell.....	*8.4	Clarke.....	2.2	Webster.....	4.0	Hampton.....	*7.7
Catahoula.....	*10.0	Clay.....	2.3	Wilkinson.....	3.3	Horry.....	1.2
Claiborne.....	1.4	Coahoma.....	*11.4	Winston.....	1.7	Jasper.....	5.1
Concordia.....	4.0	Copiah.....	2.1	Yalobusha.....	3.7	Kershaw.....	2.0
De Soto.....	3.8	Covington.....	2.0	Yazoo.....	*7.0	Lancaster.....	1.7
E. Baton Rouge... 1.6		De Soto.....	4.5	MISSOURI.		Marion.....	1.3
E. Carroll.....	2.7	Forrest.....	1.9	Butler.....	*7.1	Marlboro.....	2.4
E. Feliciana.....	1.1	Franklin.....	*5.0	Carter.....	1.3	Newberry.....	1.1
Franklin.....	*10.8	George.....	1.8	Dunklin.....	*10.0	Orangeburg.....	3.2
Grant.....	*7.6	Greene.....	2.9	Mississipp.....	3.9	Richland.....	1.5
Iberia.....	1.9	Grenada.....	2.9	New Madrid.....	2.4	Sumter.....	1.6
Iberville.....	3.0	Hinds.....	3.2	Ozark.....	1.9	Williamsburg.....	2.1
Jackson.....	3.5	Holmes.....	*6.4	Pemiscot.....	3.8	TENNESSEE.	
Jefferson Davis... 1.6		Humphreys.....	*14.1	Ripley.....	3.3	Benton.....	2.5
Lafayette.....	1.9	Issaquena.....	*10.5	Scott.....	1.7	Carroll.....	1.6
La Salle.....	*8.2	Itawamba.....	3.2	Stoddard.....	4.7	Chester.....	3.0
		Jackson.....	1.6	Wayne.....	2.3		

TABLE I.—List of counties having a malaria mortality rate in excess of 1 per 10,000 population for the three-year period 1919–1921, indicating a moderate to high incidence of the disease for that period—Continued.

TENNESSEE—continued.		TEXAS.		TEXAS—continued.		TEXAS—continued.	
County.	Rate.	County.	Rate.	County.	Rate.	County.	Rate.
Crockett.....	1.7	Anderson.....	1.5	Harris.....	1.5	Red River.....	2.0
Decatur.....	2.0	Austin.....	1.1	Henderson.....	1.1	Robertson.....	3.9
Dekalb.....	2.0	Bastrop.....	1.1	Hood.....	1.1	Rusk.....	1.3
Dyer.....	2.3	Bell.....	1.1	Houston.....	2.1	Sabine.....	1.6
Fayette.....	2.5	Bowie.....	2.8	Jackson.....	1.8	Starr.....	1.8
Franklin.....	1.5	Brazoria.....	1.5	Jefferson.....	2.5	Titus.....	2.8
Gibson.....	2.8	Brazos.....	4.1	Karnes.....	1.6	Tyler.....	1.9
Hardeman.....	2.3	Brooks.....	2.2	Lamar.....	1.3	Upshur.....	1.3
Hardin.....	2.3	Burleson.....	4.7	Lee.....	*7.1	Van Zandt.....	1.6
Haywood.....	2.0	Cameron.....	1.9	Leon.....	2.7	Victoria.....	2.2
Henderson.....	1.1	Chambers.....	4.8	Liberty.....	2.0	Waller.....	3.9
Henry.....	1.1	Cherokee.....	1.3	Limestone.....	2.1	Washington.....	1.9
Humphreys.....	1.5	Colorado.....	1.1	Madison.....	2.5	Williamson.....	1.2
Lake.....	2.2	Ellis.....	2.2	Marion.....	3.7	Wilson.....	1.2
Lauderdale.....	*7.9	Falls.....	1.4	McLennan.....	2.3	Wood.....	2.5
McNairy.....	2.7	Fannin.....	1.1	Milam.....	4.2	VIRGINIA.	
Madison.....	1.4	Fayette.....	1.7	Monterey.....	1.2	Greensville.....	2.7
Marshall.....	1.7	Fort Bend.....	1.3	Morris.....	2.9	Isle of Wight.....	1.4
Moore.....	2.2	Franklin.....	1.1	Nacogdoches.....	1.1	King George.....	1.7
Obion.....	4.6	Goliad.....	2.1	Navarro.....	1.8	King William.....	1.2
Perry.....	1.3	Gonzales.....	1.4	Orange.....	1.3	Nansemond.....	2.0
Shelby.....	1.2	Grimes.....	1.3	Panola.....	1.4	Princess Anne.....	1.5
Tipton.....	*6.3	Guadalupe.....	1.4	Folk.....	3.0		
Weakley.....	1.9	Hardin.....	1.3	Rains.....	4.9		

TABLE II.—List of counties having a malaria mortality rate in excess of 1 per 10,000 population for 1921, indicating a moderate to high incidence of the disease for that year.

[The rates are based on the number of deaths during the year 1921 and the population figures given by the Bureau of the Census for 1920. Rates indicating a high incidence are marked by an asterisk (\*).]

GEORGIA.		GEORGIA—continued.		GEORGIA—continued.		OKLAHOMA.	
County.	Rate.	County.	Rate.	County.	Rate.	County.	Rate.
Appling.....	2.8	Effingham.....	*6.0	Pierce.....	2.5	Adair.....	2.2
Bacon.....	1.5	Emanuel.....	3.5	Polk.....	1.5	Bryan.....	1.5
Baker.....	4.8	Floyd.....	1.8	Pulaski.....	3.5	Cherokee.....	1.5
Bartow.....	1.3	Gloucester.....	*7.1	Rockdale.....	1.1	Choctaw.....	3.1
Ben Hill.....	1.4	Glynn.....	1.5	Randolph.....	3.0	Creek.....	1.9
Berrien.....	1.9	Grady.....	1.5	Richmond.....	1.9	Garvin.....	1.2
Bibb.....	1.3	Hancock.....	1.6	Schley.....	1.9	Johnson.....	2.0
Bleckley.....	*6.7	Haralson.....	1.4	Screven.....	4.2	Latimer.....	1.4
Brooks.....	*5.3	Houston.....	1.8	Sumter.....	*5.4	Le Flore.....	3.3
Bryan.....	4.8	Irwin.....	1.6	Taliaferro.....	1.1	McCurtain.....	*6.6
Burke.....	*7.1	Jefferson.....	3.1	Tattall.....	2.8	McIntosh.....	1.5
Calhoun.....	4.9	Jenkins.....	*7.0	Telfair.....	1.3	Muskogee.....	1.8
Camden.....	*5.7	Johnson.....	4.5	Terrell.....	3.1	Nowata.....	3.1
Candler.....	1.1	Jones.....	1.5	Thomas.....	3.0	Okfuskee.....	1.2
Charlton.....	4.5	Laurens.....	4.8	Toombs.....	2.2	Okmulgee.....	2.2
Chatham.....	2.0	Lee.....	3.7	Treutlen.....	3.9	Pontotoc.....	1.3
Clay.....	2.6	Lowndes.....	4.5	Turner.....	1.6	Pottawatomie.....	1.3
Colquitt.....	3.1	McIntosh.....	*8.0	Twigg.....	1.9	Pushmataha.....	*7.4
Crisp.....	2.1	Macon.....	*5.1	Washington.....	2.8	Rogers.....	1.7
Dawson.....	2.4	Mitchell.....	2.7	Wayne.....	2.2	Sequoyah.....	1.1
Decatur.....	1.9	Monroe.....	1.5	Wheeler.....	4.1		
Dooly.....	2.0	Muscogee.....	1.4	Wilcox.....	2.6		
Early.....	*10.5	Oglethorpe.....	2.0	Worth.....	3.3		

The areas of high prevalence stand out as definite foci surrounded by larger areas of moderate prevalence. They are usually identified with the specially favorable topography offered by the broad flats

about the lower reaches of sluggish rivers. Particular note is made of the Pamlico Sound region of North Carolina; of the Savannah River region between South Carolina and Georgia; of the Flint River region in south Georgia; of the coast of west Florida about the mouths of the Apalachicola and Suwanee Rivers; and finally, and chiefly, of the great lower Mississippi River region with its broad flood plain, and the "delta" lands laid down by its changing course, and the extension, up the valleys, of its important tributaries—the Tennessee, the Arkansas, the St. Francis, the Black, and the Red Rivers.

No better evidence of the utility of mortality rates in indicating the distribution of the problem can be had than their agreement with

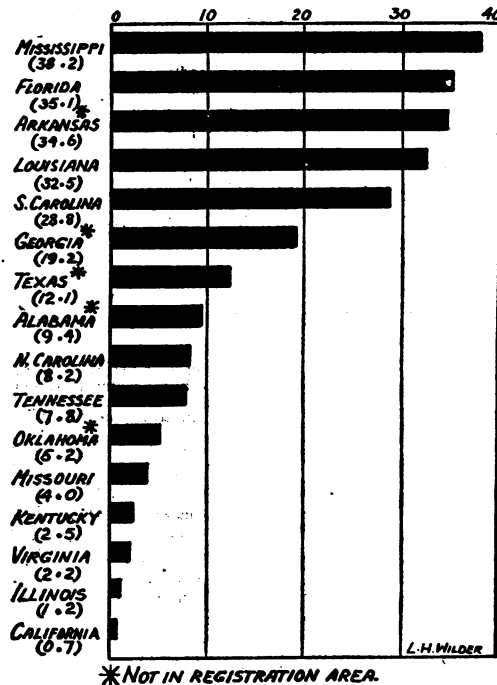


FIG. 2.—Crude death rates for malaria, 1920.

the topography which is known to be favorable to anopheline production, and hence, to malaria prevalence. It is noticeable, also, that when an area of high prevalence is indicated on the border of one State, it is generally matched by a similar area on the border of the adjacent State.

#### (B) THE RELATIVE IMPORTANCE OF THE PROBLEM IN EACH STATE.

In Table III and Figure 2 are shown the crude death rates from malaria in those States in which this disease is a more or less impor-

tant cause of death. Mississippi, Florida, Arkansas, Louisiana, and South Carolina stand out prominently at the top, as would have been expected from the data presented in the preceding paragraphs.

TABLE III.—Deaths and death rates from malaria for the years 1919–1921, inclusive, in those States in which this disease is an important cause of death.

State.	Number of deaths.			Crude death rate per 100,000. <sup>1</sup>		
	1919	1920	1921	1919	1920	1921
Alabama <sup>2</sup> (total) .....	257	221	230	11.00	9.37	9.66
White .....	115	93	126	7.98	6.40	8.59
Colored .....	142	128	104	15.83	14.13	11.38
Arkansas <sup>2</sup> (total) .....	367	610	999	21.05	34.63	56.13
White .....	235	373	637	18.46	28.99	49.01
Colored .....	132	237	362	28.09	49.90	75.44
California .....	23	24	43	6.88	6.69	1.20
Florida (total) .....	417	344	231	43.56	35.11	23.06
White .....	241	195	120	38.20	30.21	18.18
Colored .....	176	149	111	53.90	44.60	32.49
Georgia <sup>2</sup> (total) .....	363	559	468	12.60	19.21	15.92
White .....	135	242	195	8.03	14.25	11.37
Colored .....	228	317	273	18.99	26.14	22.28
Illinois .....	89	76	79	1.38	1.16	1.19
Kentucky (total) .....	73	60	84	3.03	2.47	3.45
White .....	56	48	70	2.58	2.20	3.18
Colored .....	17	12	14	7.22	5.07	5.88
Louisiana (total) .....	476	586	463	26.57	32.45	25.43
White .....	229	314	252	20.97	28.52	22.70
Colored .....	247	272	211	35.33	38.59	29.70
Mississippi (total) .....	653	683	963	36.46	38.15	53.81
White .....	207	190	321	24.23	22.25	37.61
Colored .....	446	493	642	47.61	52.64	68.58
Missouri .....	218	137	151	6.41	4.02	4.41
North Carolina (total) .....	201	210	172	7.91	8.15	6.58
White .....	81	84	75	4.57	4.68	4.12
Colored .....	120	126	97	15.59	16.14	12.25
Oklahoma <sup>2</sup> .....	91	106	166	4.53	5.18	7.96
South Carolina .....	531	487	212	31.70	28.77	12.40
Tennessee .....	241	183	304	10.34	7.80	12.87
Texas <sup>2</sup> .....	438	567	431	9.47	12.06	9.01
Virginia .....	69	51	34	3.00	2.20	1.45

<sup>1</sup> Computed on the basis of the population figures given by the Bureau of the Census for 1920 and estimated populations for 1919 and 1921.

<sup>2</sup> Not in the United States registration area for deaths; mortality figures taken from reports furnished to the United States Public Health Service by the State health officers.

Too much emphasis should not be placed upon small differences between States; there are factors which render close comparisons unreliable. One of the largest of these factors is the incompleteness of the mortality reports in those States not yet in the registration area. The influence of this factor may be partly overcome by expressing the number of malaria deaths in a ratio to the total number of deaths reported from all causes. This has been done in Table IV, and the comparison has been made still more specific by separating the figures for the cities (over 10,000) from those of the towns, villages, and country districts (rural population). A comparison of the mortality rate from malaria per 1,000 deaths from all causes reported in the rural areas only is shown for several of the States in Figure 3. In this comparison, Arkansas and Louisiana assume the leading position instead of Mississippi and Florida; the relative positions of the other States remain about the same.



This tabulation also brings out the fact that has long been known, namely, that malaria is essentially a rural problem. In spite of the tendency of the very sick malaria patients to drift into the hospitals

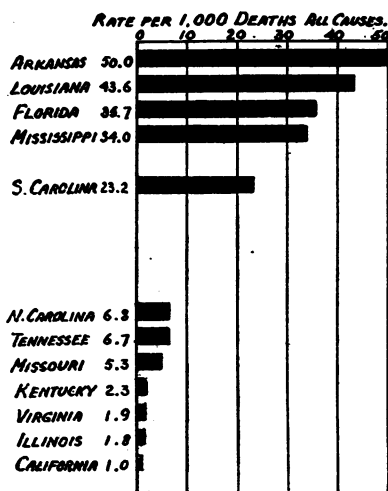


FIG. 3.—Malaria deaths per 1,000 deaths from all causes in the rural areas only of certain States, indicating the relative importance of the disease in those States.

of the large cities, there are apparently six times as many deaths from malaria in the rural districts as in the cities of the States here represented.

TABLE IV.—The relative importance of malaria as a cause of death in rural as compared with urban communities in certain States, 1920.<sup>1</sup>

State.	Urban (cities of 10,000 or more).			Rural (towns and country districts).		
	Number of deaths.		Ratio. <sup>2</sup>	Number of deaths.		Ratio. <sup>2</sup>
	All causes (a).	Malaria (b).		All causes (a).	Malaria (b).	
Arkansas.....	2,734	40	14.63	11,410	570	49.96
California.....	28,157	6	.21	19,039	18	.94
Florida.....	3,720	23	6.18	9,000	321	35.67
Illinois.....	50,815	21	.41	31,481	55	1.75
Kentucky.....	6,867	6	.87	21,697	54	2.49
Louisiana.....	9,094	42	4.62	12,459	544	43.66
Mississippi.....	3,369	50	11.84	18,671	633	33.90
Missouri.....	20,481	20	.98	22,157	117	5.28
North Carolina.....	5,788	28	4.84	26,866	182	6.77
South Carolina.....	4,219	37	8.77	19,548	450	23.02
Tennessee.....	8,519	49	5.75	19,877	134	6.74
Virginia.....	9,024	11	1.22	21,490	40	1.86
Total.....	152,788	333	2.18	233,695	3,118	13.34

<sup>1</sup> Data for all States except Arkansas are taken from Mortality Statistics, 1920, published by the Bureau of the Census. Figures for Arkansas were furnished by the State board of health of that State.

<sup>2</sup> Ratio is expressed as the number of deaths from malaria per 1,000 deaths from all causes.

It has been noted in the previous section that malaria in these States is not uniformly distributed, even in the rural areas; it is more or less sharply confined to certain sections of the rural areas of each

State. Any comparison of the relative importance of the malaria problem should take cognizance of this fact. It should show how much of the State is affected by a high or moderately high prevalence of this disease, and how fatal the disease is in this area. An attempt has been made to express such a comparison in Table V and Figure 4. The basis of the comparison is the same as that used in the preceding section, i. e., a county with an average death rate from this disease of more than 1 per 10,000 population over a three-year period may be reasonably supposed to have a real problem. In column (b), Table V, is shown the percentage of the total number of counties in each State that have such a problem, and in column (d) the ratio of the population of these counties to the total population of the State. In the last column is shown the malaria death rate based on the number of deaths from malaria in and the population of these counties in what might be called the "malaria belt" of the State.

These comparisons emphasize the position of four of the States mentioned above—Mississippi, Florida, Arkansas, and Louisiana. Georgia, South Carolina, and Texas seem to be in an intermediate class. Alabama, Tennessee, Oklahoma, and North Carolina have a large problem, but it affects less than one-half of their territory and people. Finally, Missouri, Kentucky, Virginia, Illinois, and California have their malaria apparently confined to very limited areas. The data again indicate the wide distribution and severity of malaria in the Mississippi Valley and west Florida.

TABLE V.—*The relative importance and intensity of the malaria problem in certain States compared, using for comparison only those counties having a death rate from this disease of over 1 per 10,000 population.*

State.	Counties involved.		Population involved.		Deaths from malaria, 1919-1921.	
	Number.	Per cent of total.	Number.	Per cent of total.	Average annual number.	Average annual rate per 100,000. <sup>1</sup>
	(a)	(b)	(c)	(d)	(e)	(f)
Alabama.....	29	43	864,408	37	155	1.80
Arkansas.....	52	69	1,321,402	75	639	4.84
California.....	4	7	37,341	1	9	2.41
Florida.....	41	76	771,301	80	329	4.27
Georgia.....	70	45	1,386,124	48	400	2.89
Illinois.....	9	9	183,406	3	37	2.02
Kentucky.....	6	5	119,192	5	29	2.43
Louisiana.....	55	86	1,285,524	71	486	3.78
Mississippi.....	74	90	1,645,716	92	763	4.64
Missouri.....	11	10	218,397	6	99	4.53
North Carolina.....	26	26	609,241	24	150	2.46
Oklahoma.....	20	26	638,023	31	145	2.27
South Carolina.....	26	57	894,142	53	233	2.61
Tennessee.....	27	28	773,811	33	168	2.11
Texas.....	64	25	1,839,780	39	348	1.90
Virginia.....	6	6	74,355	3	13	1.75

<sup>1</sup> The average annual number of deaths occurring in those counties (in each State) which have an average rate of more than 1 per 10,000 (column (e)) and the total population of these counties according to the 1920 census (column (c)) are the figures on which the death rates (column (f)) are computed.

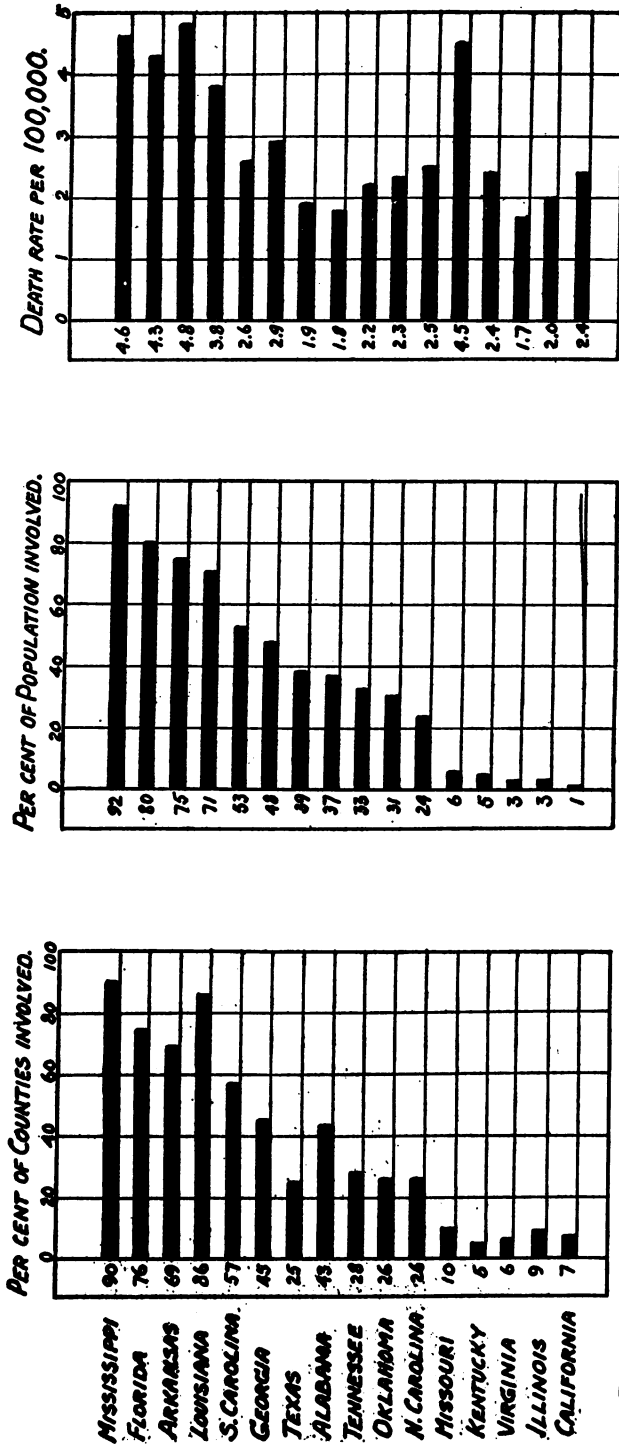


FIG. 4.—Showing for certain States the per cent of counties having a malaria death rate greater than 1 per 100,000 population for the period 1919-1921, the ratio that the population of these counties bears to the total population of the State, and the malaria death rate based upon the number of deaths and the population in these counties only.

## (C) THE NATURAL TREND OF THE DISEASE IN EACH STATE.

There is a general impression that malaria in the United States is on the decline. There is no doubt that the northern border of the "malaria belt" has been retreating. The disease has practically

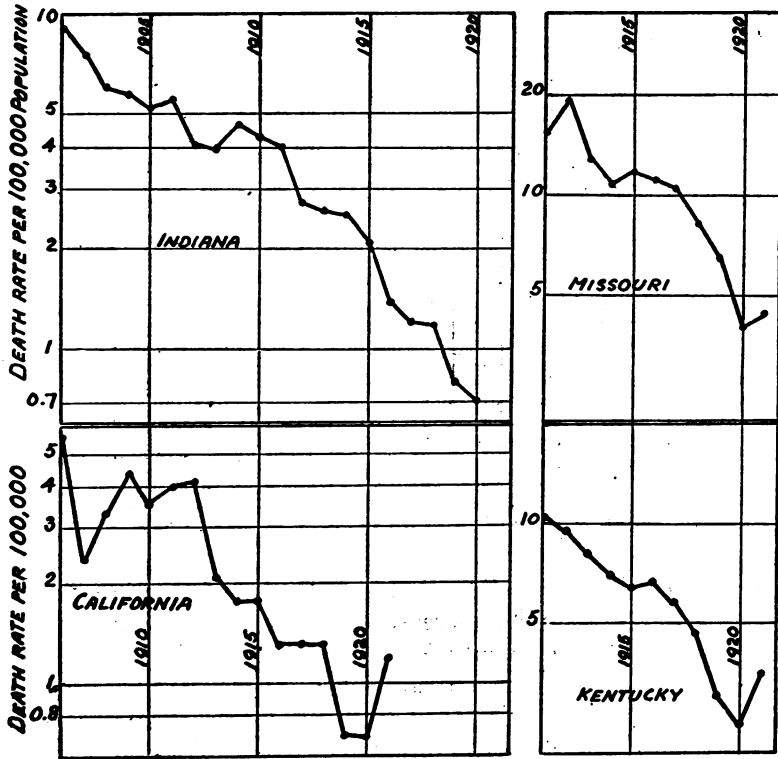


FIG. 5.—Trend in the crude death rate for malaria in Indiana, Missouri, California, and Kentucky. (According to Mortality Statistics, Bureau of the Census.)

disappeared from Maryland in the past 20 years, although there was a slight flare-up during the summer of 1922. The course of events in Virginia, Indiana, Missouri, and Kentucky is indicated by the accompanying graphs, based on the death rate. California, which has a malaria problem peculiar to itself, also shows a steady decline.

Figure 6, showing the trend of malaria mortality in four of the South Atlantic States, is based on the white population only. This is perhaps a little more dependable than a crude rate including colored persons. There seems to be no question about the downward tendency of malaria prevalence in Virginia and Florida, but in the Carolinas the rate has apparently been practically stationary during the past four years.

A different picture is presented on plotting similar data for the three Mississippi Valley States—Mississippi, Louisiana, and Arkansas—two of which show a significant increase in 1921. Part of the increase in Arkansas is undoubtedly due to better reporting, this State not

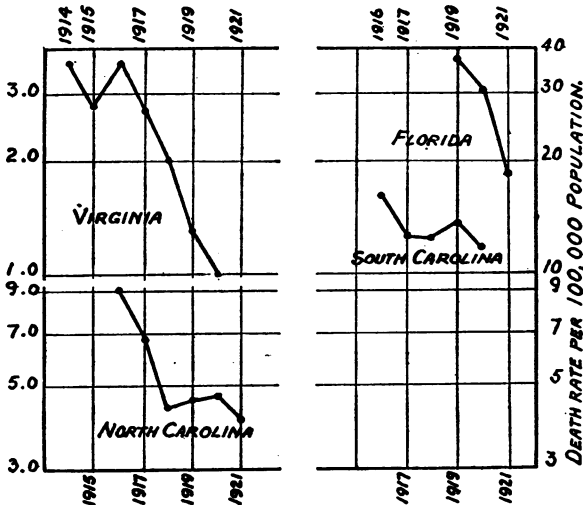


FIG. 6.—Trend of death rate for malaria among white persons only, in four South Atlantic States. (According to Mortality Statistics, Bureau of the Census.)

yet being in the registration area for deaths. From Table III it will be seen that a similar increase in deaths from malaria was also registered in 1921 in Kentucky, Missouri, and Tennessee. This increase in the malaria death rate in all these States is worthy of attention.

Undoubtedly some of the decline in the number of deaths attributed to malaria in the past few years is due to better diagnosis. It is only within the last 10 or 15 years that the use of the clinical laboratory has become sufficiently widespread to act as a check on the diagnosis of "bilious," "remittent," and "intermittent" fevers, and to confine the diagnosis of malaria more closely to the specific infection with the protozoan blood parasite. There is admittedly still much room for improvement, particularly in the remote rural areas where laboratory facilities are not at hand.

Improvement in diagnosis, however, can not account for all or nearly all the decline. One finds almost universal testimony in the field that malaria is growing less common and less severe in most parts of this country. Cases of malarial hemoglobinuria or "black-water fever" are becoming rare. One has no difficulty in finding county after county and town after town, particularly in the States along the northern border of the "malaria belt" and along the Atlantic and Gulf coasts, where the oldest inhabitants tell of the

widespread prevalence of malaria in former years, but where to-day it is difficult to demonstrate a single autochthonous case.

On the other hand, there are undoubtedly certain areas remaining in which it is hard to see any material improvement in the malaria

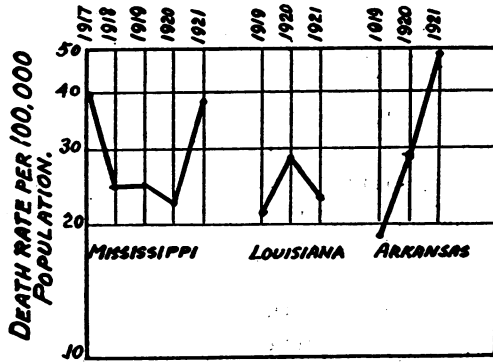


FIG. 7.—Trend of death rate for malaria among white persons only, in three States in the Mississippi Valley. (Based on Table III.)

situation in recent years. The increase in prevalence in the lower Mississippi Valley in 1921, indicated above, suggests that an uninterrupted decline is not to be expected in this section without more extensive and effective effort at control.

#### SUMMARY.

This study of mortality rates from malaria indicates that the disease is largely confined to the Coastal Plain, reaching its widest distribution in the lower Mississippi Valley. The distribution of the disease is not uniform, but focal in character. Areas of high prevalence are found chiefly about the mouths of large rivers along the coast, particularly in the "delta" lands of the Mississippi and along the valleys of its large tributaries.

In Arkansas, Louisiana, Mississippi, and Florida a large proportion of the total land area and population is affected by the malaria problem. In the other States in the South the problem is more or less limited to certain sections of each State, the remainder of the State being relatively or entirely free from the disease.

While there has been a general decrease in incidence of the disease in the past few years, this does not hold for all parts of the country. Mortality records indicate a definite increase in incidence for the Mississippi Valley during the year 1921.

## HEALTH MEASURES AT GERMAN SEAPORTS.

### PLAGUE.

German regulations requiring that ships which have come from infected ports or which are not in a satisfactory sanitary condition must be visited by the health authorities as often as possible, preferably daily, have proved particularly effective in the discovery of plague-infected rats. In a report<sup>1</sup> recently made by Doctor Breger, of Berlin, on the health measures in force at German seaports, it is stated that rat catchers are sent to investigate all vessels in German ports coming from plague-infected districts. These men search the vessel and deliver any dead rats or mice that they find to the bacteriological research laboratory. They are provided with pincers and tin boxes with tightly fitting lids. The dead rats are picked up with the pincers and are placed in the boxes after having been dipped in a lysol solution in order to render innocuous any fleas which might still adhere. In none of the vessels which, on arrival at Hamburg, were found to be infested with plague-infected rats had any noticeable mortality among the rats been observed. In every case it was only during the unloading that the presence of plague-infected rats was discovered. In the 10-year period 1903-1912, plague-infected rats were found on 45 vessels arriving at the port of Hamburg. Most of the vessels concerned came from the La Plata ports and carried cargoes of grain. On these vessels 8,412 rats and 589 mice were found, of which numbers 320 rats (3.8 per cent) and 2 mice (0.3 per cent) were found to be infected with plague.

Plague-infested ships arriving in Hamburg are regularly disinfected with a mixture of gases containing CO (Nocht Giemsa process). It is stated that this method is applied whether or not the ship is loaded, as it does not involve danger of injury to the cargo. All vessels which have taken on cargo from a vessel carrying plague-infected rats must be subjected to the process of deratization.

It is stated that, although plague-infected rats have frequently been found on vessels in the port of Hamburg, there has never been a case of infection of wharf hands or other dock laborers, and up to the time of the report there had been no spread of plague among the rats in the port. This is significant in view of the spread of plague in Mediterranean ports.

Aside from the special measures for the destruction of rats on ships carrying plague-infected rats, regular measures for the destruction of rats are applied on all vessels calling at the port of Hamburg. Every vessel entering the port is required to carry out deratization measures. On arrival, all sea-going vessels receive orders to fumigate their holds with sulphur and charcoal after the cargo has been

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<sup>1</sup> Received from Dr. Ludwik Rajchman, Director, Health Section, League of Nations.

unloaded, and to place rat poison in the other parts of the vessel. Vessels which call at Hamburg at regular intervals are required to apply the measures for the destruction of rats only every three months.

A campaign of rat destruction is also carried out on shore, officially qualified Government disinfectors and vermin destroyers being charged with this duty.

#### EMIGRANTS.

Emigrants in German ports are subjected to regular health supervision, experience having shown that persons of the poorer classes coming from eastern Europe are often carriers of dangerous infections. On arrival such persons may be lodged only in emigrants' homes, licensed and supervised by the Government, or, in the case of Hamburg, only at the "emigrant halls" provided for this purpose. These buildings were erected by a steamship company for the purpose of housing emigrants under healthful and suitable conditions from the time of their arrival at Hamburg to the time of their embarkation, and, at the same time, to place them under medical supervision. Emigrants arriving in emigrant trains or special conveyances at Veddel Station, go to the "emigrant halls," which provide accommodation for from 4,000 to 5,000 persons. These halls consist of the following buildings:

1. Buildings for the reception of the emigrants.
2. Bath and disinfecting establishments.
3. Thirty bed and living barracks.
4. Kitchens.
5. Dining halls for Christians and Jews, North Hotel and South Hotel.
6. Observation station.
7. Hospital.
8. Shop and canteen.
9. Lutheran church.
10. Catholic church.
11. Synagogue.
12. Concert hall.
13. Offices and quarters for the staff.
14. Engine and boiler room.
15. Washing installation with stirring apparatus.

It is stated that "the most scrupulous care is exercised in the delousing process, since the American immigration authorities refuse admission to any persons who show the slightest trace of nits, and impose a heavy fine on the shipping company for every person on whom lice are found. The emigrants are inspected daily by the regular doctors and frequently by specialists, particularly with a view to the discovery of skin diseases and trachoma."



**VENEREAL DISEASES.**

In German ports a special campaign is carried on against venereal diseases among sailors. The incidence of these diseases among ships' crews is said to be large, one-third of all cases of disease among sailors being venereal diseases, according to the returns of the Hamburg port medical officer. Sailors signing on for long voyages are invariably examined for venereal diseases first of all. The regulations provide that any sailor falling ill after he has signed on must be maintained and treated at the expense of the shipowner.

It is stated that in spite of the provisions for medical examination and treatment, and of regulations in force in Germany making it compulsory for persons having a venereal disease to submit to medical treatment, there is no doubt that a large number of sailors suffering from venereal diseases do not have recourse to medical treatment at all or submit to partial treatment only. At the time of the report, a bill intended to regulate the campaign against venereal diseases in general, but which will be of particular benefit to sailors, was before the Reichstag, and, the report states, will probably become a law in 1923.

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**DEATH RATES IN A GROUP OF INSURED PERSONS.**

**COMPARISON OF DEATH RATES FOR PRINCIPAL CAUSES, JANUARY AND FEBRUARY, 1923, AND MORTALITY FOR DIFFERENT AGE GROUPS, 1922.**

The accompanying tables are taken from the Statistical Bulletin of the Metropolitan Life Insurance Co. for March, 1923. They present the mortality experience of the industrial department of the company for the months of January and February, 1923, and February and year 1922, and compare the mortality by broad age groups for the years 1911, 1921, and 1922. The rates are based on a strength of approximately 14,000,000 insured persons.

In dealing with the figures presented here it must be borne in mind that the annual death rate in this selected group is lower than that for the country as a whole, varying between 73 and 87 per cent of the death rate in the registration area of the United States during the period 1911-1921.

The gross mortality rate for February, 1923 (11.5 per 1,000), the highest recorded for that month among the industrial policyholders of the company since 1920, shows an increase of 7.7 per cent over the rate for February, 1922, and of 9.8 per cent over that for January, 1923. This higher rate is attributed almost entirely to the higher mortality from influenza and pneumonia, which diseases are charged with 2,698 of the 11,999 deaths from all causes during the month—nearly one-fourth of the total. Attention is called to the fact that

experience in prior epidemics has demonstrated that influenza is a distinct factor in hastening the death of many persons who have chronic ailments, and it is believed that this disease accounts for much of the 8 per cent increase in the mortality from organic heart disease in February, 1923, as well as for a large part of the increase of more than 4 per cent for chronic nephritis and of the 4 per cent increase for tuberculosis.

The following statements are made regarding the influenza outbreak of the early part of the current year: It began a month earlier and was more severe than the outbreak of 1922; there was a well-defined spread of the disease from the Carolinas, Georgia, and Tennessee, where it became epidemic in December, 1922, to practically all sections of the United States and to Canada; it extended over a longer period of time than the outbreak of 1922; the type of the disease was not of the virulent form of that of 1918, not running so quickly into pneumonia as did the 1918 type. It is concluded that "when epidemic influenza prevails, no matter how mild the type, the country is confronting a public health problem of the first magnitude."

The death rate for measles was four times as high for February, 1923, as for the corresponding month of 1922, and shows a 25 per cent increase over the rate for January, 1923. Whooping cough mortality was more than double that for the same period of 1922, and almost double that for January, 1923.

*Death rates (annual basis) for principal causes of death per 100,000 lives exposed, January and February, 1923, and February and year, 1922.*

[Industrial department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.			
	February, 1923.	January, 1923.	February, 1922.	Year 1922. <sup>1</sup>
Total, all causes.....	1,148.7	1,046.3	1,067.0	877.2
Typhoid fever.....	2.8	4.2	2.0	5.6
Measles.....	10.6	8.4	2.6	4.3
Scarlet fever.....	4.4	5.9	9.5	4.8
Whooping cough.....	6.4	3.7	3.0	2.6
Diphtheria.....	17.3	27.1	23.1	17.8
Influenza.....	90.2	37.8	48.7	21.5
Tuberculosis (all forms).....	119.1	114.7	114.7	113.4
Tuberculosis of respiratory system.....	109.8	106.9	108.0	102.9
Cancer.....	70.0	71.8	76.6	71.5
Diabetes mellitus.....	21.9	20.0	( <sup>2</sup> )	17.0
Cerebral hemorrhage.....	73.3	72.1	72.9	62.4
Organic diseases of heart.....	169.3	157.2	161.9	126.0
Pneumonia (all forms).....	168.1	131.7	140.8	73.3
Other respiratory diseases.....	22.3	20.4	22.0	13.6
Diarrhea and enteritis.....	5.9	6.2	6.7	10.7
Bright's disease (chronic nephritis).....	84.0	80.6	80.0	69.9
Puerperal state.....	19.0	17.9	22.8	18.9
Suicides.....	5.5	7.1	6.7	7.4
Homicides.....	5.1	7.2	4.9	6.2
Other external causes (excluding suicides and homicides).....	52.0	56.7	49.3	57.7
Traumatism by automobile.....	9.4	10.8	7.8	13.5
All other causes.....	201.6	195.4	218.5	172.6

<sup>1</sup> Based on provisional estimate of lives exposed to risk in 1922.

<sup>2</sup> Not available.

## MORTALITY BY AGE GROUPS, 1911, 1921, AND 1922.

The death rates in all age groups show large declines in 1921 and 1922 from those for 1911; and in the age division under 25 years they show substantial declines in 1922 as compared with 1921, although the rate for all ages combined increased slightly. The greatest improvement in 1922 over 1911 is shown in the age group 1-15 years, reflecting lower mortality from infectious diseases of children and promising fewer impairments of heart and kidney, which may appreciably affect the future death rates for cardio-renal diseases among young adults.

The following table gives the death rates for all causes of death, by age groups, for 1911, 1921, and 1922, and shows the per cent decline in 1922 as compared with the rates for 1911 and 1921:

*Death rates per 1,000 for all causes of death, by age groups, 1911, 1921, and 1922.*

[Industrial department, Metropolitan Life Insurance Co.]

Age period.	1922	1921	1911	Per cent decline in 1922 since—	
				1921	1911
All ages, 1 and over .....	8.772	8.706	12.530	10.8	30.0
1 to 15 .....	3.6	4.1	6.2	12.2	41.9
15 to 24 .....	4.1	4.3	5.9	4.7	30.5
25 to 34 .....	5.8	5.6	9.5	3.6	38.9
35 to 44 .....	8.7	8.5	13.7	2.4	36.5
45 to 64 .....	20.2	18.7	26.2	8.0	22.9
65 and over .....	69.9	69.3	81.3	.9	14.0

<sup>1</sup> Figures in bold-face type denote increase.

## DEATHS DURING WEEK ENDED MAY 12, 1923.

*Summary of information received by telegraph from industrial insurance companies for week ended May 12, 1923, and corresponding week of 1922. (From the Weekly Health Index, May 15, 1923, issued by the Bureau of the Census, Department of Commerce.)*

	Week ended May 12, 1923.	Corresponding week, 1922.
Policies in force .....	53,501,494	49,771,976
Number of death claims .....	10,635	9,478
Death claims per 1,000 policies in force, annual rate .....	10.4	9.9

*Deaths from all causes in certain large cities of the United States during the week ended May 12, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, May 15, 1923, issued by the Bureau of the Census, Department of Commerce.)*

City.	Week ended May 12, 1923.		Annual death rate per 1,000, corresponding week, 1922.	Deaths under 1 year.		Infant mortality rate, week ended May 12, 1923. <sup>3</sup>
	Total deaths.	Death rate. <sup>1</sup>		Week ended May 12, 1923.	Corresponding week, 1922.	
Total.....	7,070	12.8	12.8	930	896	.....
Albany, N. Y. <sup>2</sup> .....	41	18.2	20.2	5	6	111
Atlanta, Ga.....	72	16.8	11.4	8	2	.....
Baltimore, Md. <sup>2</sup> .....	204	13.8	12.7	31	28	91
Birmingham, Ala.....	40	10.6	12.3	5	4	.....
Boston, Mass.....	230	15.6	14.0	21	25	60
Bridgeport, Conn.....	27	9.8	8.7	3	2	41
Buffalo, N. Y.....	134	13.0	13.9	22	26	92
Cambridge, Mass.....	21	9.8	10.3	1	2	18
Camden, N. J. <sup>2</sup> .....	29	12.2	14.1	5	7	83
Chicago, Ill.....	663	12.0	12.4	103	100	.....
Cincinnati, Ohio.....	112	14.4	14.9	9	10	59
Cleveland, Ohio. <sup>2</sup> .....	196	11.5	10.3	24	33	66
Columbus, Ohio.....	88	17.6	13.2	9	8	94
Dallas, Tex.....	39	11.5	7.3	6	4	.....
Dayton, Ohio.....	42	13.2	8.1	3	3	49
Denver, Colo.....	74	14.2	17.3	7	7	.....
Des Moines, Iowa.....	32	11.8	.....	3	.....	.....
Detroit, Mich.....	290	15.2	11.1	48	27	96
Duluth, Minn.....	23	11.3	.....	1	.....	23
Erie, Pa.....	27	12.5	11.9	2	0	41
Fall River, Mass. <sup>2</sup> .....	22	9.5	13.0	4	7	57
Flint, Mich.....	34	15.0	.....	9	.....	179
Fort Worth, Tex.....	18	6.5	10.0	1	1	.....
Grand Rapids, Mich.....	20	7.1	12.7	2	3	32
Houston, Tex.....	35	11.8	11.1	4	4	.....
Indianapolis, Ind.....	96	14.6	13.1	8	11	62
Jacksonville, Fla.....	26	13.6	15.5	1	2	.....
Jersey City, N. J.....	65	11.0	13.1	17	13	114
Kansas City, Kans.....	30	13.5	15.6	7	3	160
Los Angeles, Calif.....	220	17.2	15.0	40	13	150
Louisville, Ky.....	83	16.8	17.1	8	11	86
Lowell, Mass.....	28	12.7	14.6	5	7	87
Lynn, Mass.....	20	10.2	.....	4	.....	105
Memphis, Tenn.....	64	19.6	12.7	9	8	.....
Milwaukee, Wis.....	104	11.2	12.4	13	36	65
Minneapolis, Minn.....	77	9.8	10.8	4	11	22
Nashville, Tenn. <sup>2</sup> .....	24	10.3	21.2	4	5	.....
New Bedford, Mass.....	26	10.4	13.5	5	7	78
New Haven, Conn.....	43	13.0	11.4	6	5	78
New Orleans, La.....	105	13.5	15.4	9	14	.....
New York, N. Y.....	1,347	11.8	13.2	183	207	73
Bronx Borough.....	161	10.0	10.7	17	23	60
Brooklyn Borough.....	433	10.5	12.3	55	68	58
Manhattan Borough.....	609	14.0	14.8	94	101	91
Queens Borough.....	97	9.4	12.5	13	9	70
Richmond Borough.....	47	19.2	17.6	4	6	73
Newark, N. J.....	92	10.9	11.4	16	12	75
Norfolk, Va.....	39	12.8	11.3	9	11	159
Oakland, Calif.....	51	11.1	11.6	4	3	51
Omaha, Nebr.....	54	13.8	13.5	6	10	65
Paterson, N. J.....	30	11.2	12.0	2	3	32
Philadelphia, Pa.....	511	13.9	13.8	57	54	74
Pittsburgh, Pa.....	182	15.5	13.0	34	19	118
Portland, Oreg.....	57	10.9	12.2	4	9	40
Providence, R. I.....	59	12.7	12.5	11	11	90
Richmond, Va.....	52	15.0	13.7	7	4	86
Rochester, N. Y.....	68	11.2	12.2	10	11	79
St. Louis, Mo.....	184	11.9	11.7	20	11	.....
St. Paul, Minn.....	58	12.5	11.3	6	5	55
Salt Lake City, Utah <sup>2</sup> .....	33	13.6	12.2	4	1	65
San Antonio, Tex.....	53	15.0	.....	6	.....	.....
San Francisco, Calif.....	115	11.1	11.6	14	7	84
Seattle, Wash.....	57	9.4	9.6	3	5	27

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births.

<sup>3</sup> Deaths for week ended Friday, May 11, 1923.

*Deaths from all causes in certain large cities of the United States during the week ended May 12, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, May 15, 1923, issued by the Bureau of the Census, Department of Commerce.)—Continued.*

City.	Week ended May 12, 1923.		Annual death rate per 1,000, corresponding week, 1922.	Deaths under 1 year.		Infant mortality rate, week ended May 12, 1923.
	Total deaths.	Death rate.		Week ended May 12, 1923.	Corresponding week, 1922.	
Spokane, Wash.....	27	13.5	17.5	3	5	66
Springfield, Mass.....	27	9.8	11.9	5	5	71
Syracuse, N. Y.....	46	13.0	13.3	6	8	78
Tacoma, Wash.....	16	8.2	.....	2	.....	50
Toledo, Ohio.....	57	11.1	11.8	7	7	71
Trenton, N. J.....	43	17.6	18.3	5	4	85
Washington, D. C.....	138	16.4	13.3	14	8	80
Wilmington, Del.....	31	13.7	10.8	2	6	41
Worcester, Mass.....	52	14.1	17.2	6	9	69
Yonkers, N. Y.....	28	13.6	10.4	3	1	65
Youngstown, Ohio.....	39	15.4	9.5	5	5	68

# PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

## UNITED STATES.

### CURRENT STATE SUMMARIES.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

#### Reports for Week Ended May 19, 1923.

ALABAMA.	Cases.	ARKANSAS—continued.	Cases.
Anthrax.....	1	Tuberculosis.....	10
Dengue.....	1	Typhoid fever.....	6
Diphtheria.....	11	Whooping cough.....	13
Dysentery.....	55		
Influenza.....	65	CALIFORNIA.	
Malaria.....	77	Cerebrospinal meningitis—Ontario.....	1
Measles.....	1,547	Diphtheria.....	152
Pellagra.....	10	Influenza.....	15
Pneumonia.....	43	Lethargic encephalitis—Berkeley.....	1
Scarlet fever.....	1	Measles.....	1,292
Smallpox.....	5	Poliomyelitis:	
Tuberculosis.....	25	Colusa.....	1
Typhoid fever.....	23	Oakland.....	1
Whooping cough.....	79	Scarlet fever.....	141
		Smallpox:	
ARIZONA.		Los Angeles.....	13
Chicken pox.....	3	Scattering.....	17
Diphtheria.....	15	Typhoid fever.....	8
Measles.....	34		
Scarlet fever.....	7	COLORADO.	
Smallpox.....	1	(Exclusive of Denver.)	
Tuberculosis.....	16	Chicken pox.....	17
Typhoid fever.....	2	Diphtheria.....	48
		Influenza.....	1
ARKANSAS.		Lethargic encephalitis.....	1
Chicken pox.....	37	Measles.....	90
Dengue.....	2	Mumps.....	23
Diphtheria.....	2	Pneumonia.....	4
Hookworm disease.....	1	Scarlet fever.....	17
Influenza.....	60	Smallpox.....	1
Malaria.....	85	Tuberculosis.....	18
Measles.....	370	Typhoid fever.....	4
Mumps.....	14	Whooping cough.....	8
Paratyphoid fever.....	2		
Pellagra.....	6	CONNECTICUT.	
Scarlet fever.....	7	Cerebrospinal meningitis.....	1
Smallpox.....	12	Chicken pox.....	51
Trachoma.....	5	Conjunctivitis.....	1

## CONNECTICUT—continued.

	Cases.
Diphtheria.....	53
German measles.....	14
Influenza.....	2
Lethargic encephalitis.....	1
Measles.....	240
Mumps.....	19
Pneumonia (lobar).....	19
Scarlet fever.....	108
Tuberculosis (all forms).....	41
Typhoid fever.....	1
Whooping cough.....	63

## FLORIDA.

Cerebrospinal meningitis.....	1
Dengue.....	2
Diphtheria.....	6
Influenza.....	55
Malaria.....	24
Pneumonia.....	63
Poliomyelitis.....	1
Scarlet fever.....	2
Smallpox.....	1
Typhoid fever.....	24

## GEORGIA.

Chicken pox.....	11
Diphtheria.....	5
Dysentery (bacillary).....	17
Hookworm disease.....	196
Influenza.....	23
Malaria.....	27
Measles.....	278
Mumps.....	2
Pellagra.....	2
Pneumonia.....	3
Scarlet fever.....	4
Septic sore throat.....	1
Smallpox.....	12
Tuberculosis (pulmonary).....	5
Typhoid fever.....	7
Whooping cough.....	6

## ILLINOIS.

Diphtheria:	
Cook County (including Chicago).....	108
Chicago.....	99
Scattering.....	51
Influenza.....	26
Lethargic encephalitis—Chicago.....	1
Pneumonia.....	346
Poliomyelitis—Peoria County.....	1
Scarlet fever:	
Cook County.....	99
Chicago.....	81
Edgar County.....	10
Scattering.....	75
Smallpox.....	10
Typhoid fever.....	17
Whooping cough.....	214

## INDIANA.

Cerebrospinal meningitis:	
Marion County.....	1
Parke County.....	1

## INDIANA—continued.

	Cases.
Diphtheria.....	35
Influenza.....	14
Measles.....	1, 315
Pneumonia.....	2
Scarlet fever.....	51
Smallpox.....	63
Typhoid fever.....	2

## IOWA.

Diphtheria.....	19
Scarlet fever.....	95
Smallpox.....	25

## KANSAS.

Chicken pox.....	26
Diphtheria.....	29
Influenza.....	3
Measles.....	373
Mumps.....	14
Pneumonia.....	23
Scarlet fever.....	32
Smallpox.....	14
Tuberculosis.....	35
Typhoid fever.....	12
Whooping cough.....	50

## LOUISIANA.

Diphtheria.....	16
Influenza.....	9
Measles.....	59
Scarlet fever.....	2
Smallpox.....	11
Typhoid fever.....	6
Whooping cough.....	30

## MAINE.

Cerebrospinal meningitis.....	3
Chicken pox.....	16
Diphtheria.....	5
German measles.....	22
Influenza.....	6
Measles.....	200
Pneumonia.....	12
Scarlet fever.....	26
Smallpox.....	3
Tuberculosis.....	4
Typhoid fever.....	3
Whooping cough.....	16

MARYLAND.<sup>1</sup>

Chicken pox.....	100
Diphtheria.....	33
German measles.....	3
Influenza.....	11
Malaria.....	3
Measles.....	1, 059
Mumps.....	72
Pneumonia (all forms).....	117
Scarlet fever.....	176
Septic sore throat.....	1
Tuberculosis.....	40
Typhoid fever.....	3
Whooping cough.....	132

<sup>1</sup> Week ended Friday.

## MASSACHUSETTS.

	Cases.
Cerebrospinal meningitis.....	4
Chicken pox.....	175
Conjunctivitis (suppurative).....	14
Diphtheria.....	103
German measles.....	23
Hookworm disease.....	1
Influenza.....	2
Lethargic encephalitis.....	1
Measles.....	1,012
Mumps.....	295
Ophthalmia neonatorum.....	15
Pneumonia (lobar).....	76
Polio myelitis.....	1
Scarlet fever.....	357
Septic sore throat.....	4
Tuberculosis (all forms).....	166
Typhoid fever.....	18
Whooping cough.....	305

## MICHIGAN.

Diphtheria.....	95
Measles.....	2,134
Pneumonia.....	224
Scarlet fever.....	327
Smallpox.....	26
Tuberculosis.....	50
Typhoid fever.....	416
Whooping cough.....	2,221

## MINNESOTA.

Cerebrospinal meningitis.....	1
Chicken pox.....	3
Diphtheria.....	55
Influenza.....	5
Lethargic encephalitis.....	1
Measles.....	781
Pneumonia.....	8
Polio myelitis.....	1
Scarlet fever.....	218
Smallpox.....	22
Tuberculosis.....	62
Typhoid fever.....	4
Whooping cough.....	14

## MISSISSIPPI.

Diphtheria.....	6
Influenza.....	58
Scarlet fever.....	2
Smallpox.....	3
Typhoid fever.....	9

## MISSOURI.

(Exclusive of Kansas City and St. Louis.)

Cerebrospinal meningitis.....	2
Chicken pox.....	7
Diphtheria.....	24
Influenza.....	8
Measles.....	425
Mumps.....	15
Polio myelitis.....	2
Scarlet fever.....	28
Smallpox.....	14
Trachoma.....	6
Tuberculosis.....	2
Typhoid fever.....	1
Whooping cough.....	9

## MONTANA.

	Cases.
Diphtheria.....	3
Rocky Mountain spotted fever:	
Forsyth.....	1
Jordan.....	3
Rosebud.....	1
Scarlet fever.....	15
Smallpox.....	4
Typhoid fever.....	2

## NEBRASKA.

Cerebrospinal meningitis—Boyd County.....	1
Chicken pox.....	16
Diphtheria.....	13
Influenza.....	1
Measles:	
Omaha.....	19
Scattering.....	11
Mumps.....	55
Scarlet fever.....	40
Septic sore throat.....	1
Smallpox.....	4
Tuberculosis.....	1
Whooping cough.....	39

## NEW JERSEY.

Cerebrospinal meningitis.....	4
Chicken pox.....	186
Diphtheria.....	87
Influenza.....	6
Measles.....	932
Pneumonia.....	101
Scarlet fever.....	153
Smallpox.....	2
Trachoma.....	7
Typhoid fever.....	9
Whooping cough.....	125

## NEW MEXICO.

Chicken pox.....	5
Conjunctivitis.....	1
Diphtheria.....	10
Measles.....	26
Pneumonia.....	6
Scarlet fever.....	5
Smallpox.....	2
Trachoma.....	95
Tuberculosis.....	17
Typhoid fever.....	1
Whooping cough.....	11

## NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis.....	5
Diphtheria.....	85
Influenza.....	11
Lethargic encephalitis.....	3
Measles.....	2,385
Pneumonia.....	243
Polio myelitis.....	2
Scarlet fever.....	249
Smallpox.....	3
Typhoid fever.....	17
Whooping cough.....	211



NORTH CAROLINA.		Cases.	VERMONT—continued.		Cases.
Chicken pox.....		78	Mumps.....		26
Diphtheria.....		17	Pneumonia.....		8
Measles.....	2, 154		Scarlet fever.....		25
Scarlet fever.....		18	Typhoid fever.....		1
Septic sore throat.....		2	Whooping cough.....		38
Smallpox.....		81			
Typhoid fever.....		41	WASHINGTON.		
Whooping cough.....		555	Chicken pox.....		54
			Diphtheria.....		25
OREGON.			Measles:		
Chicken pox.....		24	Seattle.....		36
Diphtheria:			Scattering.....		75
Portland.....		18	Mumps.....		38
Scattering.....		6	Poliomyelitis—Thurston County.....		1
Measles.....		3	Rocky Mountain spotted fever:		
Mumps.....		6	Lincoln County.....		1
Scarlet fever.....		20	Scarlet fever.....		48
Smallpox:			Smallpox.....		33
Portland.....		14	Tuberculosis.....		42
Scattering.....		16	Typhoid fever.....		4
Tuberculosis.....		12	Whooping cough.....		122
Typhoid fever.....		3			
Whooping cough.....		44	WEST VIRGINIA.		
			Chicken pox.....		4
SOUTH DAKOTA.			Diphtheria.....		7
Chicken pox.....		4	Scarlet fever.....		8
Diphtheria.....		2	Typhoid fever.....		3
Measles.....		51			
Mumps.....		5	WISCONSIN.		
Pneumonia.....		3	Milwaukee:		
Scarlet fever.....		22	Chicken pox.....		14
Smallpox.....		2	Diphtheria.....		18
Whooping cough.....		1	German measles.....		1
			Measles.....		22
			Pneumonia.....		4
			Scarlet fever.....		164
			Tuberculosis.....		10
			Whooping cough.....		20
			Scattering:		
			Chicken pox.....		35
			Diphtheria.....		31
			German measles.....		4
			Influenza.....		66
			Lethargic encephalitis.....		1
			Measles.....	1, 354	
			Ophthalmia neonatorum.....		1
			Pneumonia.....		15
			Scarlet fever.....		219
			Smallpox.....		37
			Trachoma.....		1
			Tuberculosis.....		52
			Typhoid fever.....		7
			Whooping cough.....		70
TEXAS.					
Chicken pox.....		37			
Dengue.....		5			
Diphtheria.....		24			
Influenza.....		31			
Measles.....		49			
Mumps.....		11			
Pneumonia.....		6			
Scarlet fever.....		19			
Smallpox.....		6			
Trachoma.....		10			
Typhoid fever.....		21			
Tuberculosis.....		26			
Whooping cough.....		88			
VERMONT.					
Chicken pox.....		19			
Diphtheria.....		5			
Measles.....		352			

## Reports for Week Ended May 12, 1923.

DISTRICT OF COLUMBIA.		Cases.	NORTH DAKOTA—contd.		Cases.
Chicken pox.....		21	Lethargic encephalitis.....		1
Diphtheria.....		11	Measles.....		56
Influenza.....		3	Pneumonia.....		2
Measles.....		535	Scarlet fever.....		9
Scarlet fever.....		26	Smallpox.....		4
Tuberculosis.....		28	Tuberculosis.....		9
Typhoid fever.....		2	Typhoid fever.....		1
Whooping cough.....		35	Whooping cough.....		1
NORTH DAKOTA.			WYOMING.		
Cerebrospinal meningitis.....		2	Chicken pox.....		3
Diphtheria.....		4	Measles.....		1
Influenza.....		1	Rocky Mountain spotted fever.....		1

## SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State.	Cerebro-spinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Poliomyelitis.	Scarlet fever.	Small-pox.	Typhoid fever.
<i>February, 1923.</i>									
Vermont.....		20			51		76	7	
<i>March, 1923.</i>									
Oklahoma.....		201	151		172		28	102	3
Vermont.....		23	15		75		70	4	5
<i>April, 1923.</i>									
Michigan.....	21	496	49		2,782	3	1,356	116	41
New Jersey.....	12	441	158		3,957	2	688		19
New York.....	23	1,131	785	10	7,806	2	2,445	27	113
North Dakota.....		20	5		142		63	36	4

## Cases of Certain Communicable Diseases Reported for the Month of March, 1923, by State Health Officers.

State.	Number of cases reported.								
	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Small-pox.	Tuberculosis.	Typhoid fever.	Whooping cough.
Alabama.....	162	75	2,716		33	51	166	95	382
Arizona.....	21	8	7	59	28	22	53	1	34
Arkansas.....	61	11	561	17	14	30	33	5	55
California.....	940	629	2,867	127	803	84	665	27	714
Colorado.....	215	166	200	100	236	12	492	5	159
Connecticut.....	189	259	1,328	170	372	6	15	9	253
Delaware.....	2	10	160	5	33		20	1	6
District of Columbia.....	161	47	1,398		125	1	132	3	237
Florida.....	73	32	174	4	7	44	89	55	25
Georgia <sup>1</sup> .....									
Idaho.....	32	3	2		30	11	1	1	23
Illinois.....	978	1,032	6,604	809	1,006	63	2,489	89	1,214
Indiana.....		270	1,543		344	149	155	13	
Iowa.....		116	325		500	69		(*)	
Kansas.....	252	140	818	248	317	56	232	3	647
Kentucky <sup>1</sup> .....									
Louisiana.....	47	103	50	4	29	129	146	35	131
Maine.....	135	32	433		116		63	7	351
Maryland.....	428	197	1,950	297	379		213	27	496
Massachusetts.....	574	700	3,612	1,189	1,569		543	42	1,884
Michigan.....	569	569	1,045	260	1,525	130	553	53	865
Minnesota.....	286	218	2,088		778	209	247	18	181
Mississippi.....	417	80	4,893	139	13	6	287	58	1,207
Missouri.....									
Montana.....	89	53	22		61	42	12	1	6
Nebraska.....	53	78	94	88	152	11	17	3	136
Nevada <sup>2</sup> .....									
New Hampshire <sup>3</sup> .....									
New Jersey.....	654	590	3,842		937	2	483	16	618
New Mexico <sup>4</sup> .....									
New York.....	1,412	1,207	6,196	1,555	2,873	54	2,132	90	1,683
North Carolina.....	559	150	8,502		117	540		40	1,636
North Dakota.....	35	90	49	1	128	98	10	1	41
Ohio.....	715	732	7,817	136	1,731	161	652	44	896
Oklahoma.....		201	172	50	28	102	18	3	
Oregon.....	82	41	9	8	74	89	55	4	16
Pennsylvania.....	1,365	1,327	17,667	765	1,674	12	672	72	1,629
Rhode Island.....	13	56	1,194	3	39		46	2	27
South Carolina.....	109	63	170	3	35	51	13	6	43
South Dakota.....	59	57	87		204	26	13	2	29

<sup>1</sup> Reports received weekly.

<sup>2</sup> Not notifiable.

<sup>3</sup> Reports received annually.

<sup>4</sup> Report not received at time of going to press.

**Cases of Certain Communicable Diseases Reported for the Month of March, 1923,  
by State Health Officers—Continued.**

State.	Number of cases reported.								
	Chicken pox.	Diph- theria.	Measles	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whoop- ing cough.
Tennessee <sup>1</sup>									
Texas <sup>1</sup>									
Utah <sup>2</sup>									
Vermont	82	23	75	75	70	4	19	5	85
Virginia	741	173	5,682		183	36	284	29	
Washington	309	72	38	113	215	196	97	20	348
West Virginia	188	113	1,193		144	44	57	54	
Wisconsin	385	299	4,115		1,592	119	179	26	506
Wyoming	15	3	53	5	24	4			4

<sup>1</sup> Reports received weekly.<sup>2</sup> Reports received annually.

**Reported Cases per 1,000 Population (Annual Basis) for the Month of March, 1923.**

State.	Case rates per 1,000 population.								
	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whoop- ing cough.
Alabama	0.79	0.36	13.19		0.16	0.25	0.81	0.46	1.86
Arizona	.65	.25	.22	1.82	.87	.68	1.64	.03	1.05
Arkansas	.40	.07	3.64	.11	.09	.19	.21	.03	.36
California	2.91	1.95	8.87	.39	2.48	.26	2.06	.08	2.21
Colorado	2.55	1.97	2.38	1.19	2.81	.14	5.85	.06	1.89
Connecticut	1.51	2.07	10.59	1.36	2.97	.05	1.12	.07	2.02
Delaware	.10	.51	8.17	.26	1.69		1.02	.05	.31
District of Columbia	3.98	1.16	34.58		3.09	.02	3.27	.07	5.86
Florida	.82	.36	1.96	.05	.08	.50	1.00	.62	.28
Georgia <sup>1</sup>									
Idaho	.80	.08	.05		.75	.28	.03	.03	.58
Illinois	1.70	1.79	11.45	1.40	1.74	.11	4.32	.15	2.10
Indiana	1.70	1.06	6.03		1.84	.58	.61	.06	
Iowa		.55	1.55		2.58	.33		( <sup>2</sup> )	
Kansas	1.65	.92	5.36	1.62	2.08	.37	1.52	.02	4.24
Kentucky <sup>1</sup>									
Louisiana	.30	.66	.32	.03	1.76	.82	.93	.22	.83
Maine	2.05	.48	6.56		1.76		.95	.11	5.32
Maryland	3.35	1.54	15.25	2.32	2.96		1.67	.21	3.80
Massachusetts	1.68	2.05	10.56	3.48	4.59		1.59	.12	5.51
Michigan	1.68	1.68	3.09	.77	4.51	.38	1.64	.16	2.56
Minnesota	1.35	1.03	9.84		3.67	.98	1.16	.08	.85
Mississippi	2.75	.53	32.22	.92	.09	.04	1.89	.38	7.95
Missouri <sup>1</sup>									
Montana	1.71	1.02	.42		1.18	.81	.23	.02	.12
Nebraska	.47	.69	.83	.78	1.34	.10	.15	.03	1.20
Nevada <sup>2</sup>									
New Hampshire <sup>2</sup>									
New Jersey	2.28	2.06	13.39		3.27	.01	1.68	.06	2.15
New Mexico <sup>4</sup>									
New York	1.53	1.31	6.73	1.69	3.12	.06	2.31	.10	1.83
North Carolina	2.45	.66	37.26		.51	2.37		.18	7.17
North Dakota	.61	1.58	.86	.02	2.24	1.72	.18	.02	.72
Ohio	1.38	1.41	15.05	.26	3.33	.31	1.25	.08	1.73
Oklahoma		1.09	.94	.27	.15	.56	.10	.02	
Oregon	1.17	.59	.13	.11	1.06	1.27	.79	.06	.23
Pennsylvania	1.77	1.72	22.86	.99	2.17	.02	.87	.09	2.11
Rhode Island	.24	1.05	22.43	.06	.73		.86	.04	.51
South Carolina	.74	.43	1.15	.02	.24	.34	.09	.04	.29
South Dakota	1.06	1.02	1.56		3.66	.47	.23	.04	.52
Tennessee <sup>1</sup>									
Texas <sup>1</sup>									
Utah <sup>2</sup>									
Vermont	2.75	.77	2.51	2.51	2.35	.13	.64	.17	2.85
Virginia	3.64	.85	27.89		.90	.18	1.39	.14	
Washington	2.54	.59	.31	.93	1.77	1.61	.80	.16	2.86
West Virginia	1.43	.86	9.06		1.09	.33	.43	.41	
Wisconsin	1.65	1.29	17.69		6.84	.51	.77	.11	2.17
Wyoming	.83	.17	2.95	.28	1.33	.22			.22

<sup>1</sup> Reports received weekly.<sup>2</sup> Reports received annually.<sup>3</sup> Not notifiable.<sup>4</sup> Report not received at time of going to press.

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923.

## ANTHRAX.

City.	Cases.	Deaths.
Alabama:		
Tuscaloosa.....	1	.....
New York:		
New York.....	1	.....

## CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended May 5, 1923.		City.	Median for pre- vious years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Missouri:			
Los Angeles.....	0	1	.....	St. Louis.....	1	1	2
Riverside.....	0	.....	1	New Jersey:			
San Bernardino.....	0	1	.....	Morristown.....	0	.....	1
Illinois:				Newark.....	1	.....	1
Chicago.....	1	1	.....	New York:			
Rockford.....	0	.....	1	New York.....	6	6	2
Indiana:				Pennsylvania:			
Bloomington.....	.....	1	.....	Easton.....	0	1	.....
Louisiana:				Philadelphia.....	1	.....	1
New Orleans.....	0	1	.....	Rhode Island:			
Massachusetts:				Providence.....	0	2	.....
Boston.....	1	1	.....	Texas:			
Greenfield.....	0	.....	1	Dallas.....	0	1	.....
Lowell.....	0	1	1	Virginia:			
Somerville.....	0	1	1	Norfolk.....	0	.....	1
Michigan:				Wisconsin:			
Highland Park.....	0	.....	1	Milwaukee.....	.....	3	3
Minnesota:							
St. Paul.....	0	1	.....				

## DIPHTHERIA.

See p. 1158; also Current State summaries, p. 1146, and Monthly summaries by States, p. 1150.

## INFLUENZA.

City.	Cases.		Deaths, week ended May 5, 1923.	City.	Cases.		Deaths week ended May 5, 1923.
	Week ended May 6, 1922.	Week ended May 5, 1923.			Week ended May 6, 1922.	Week ended May 5, 1923.	
Alabama:				Connecticut—Continued.			
Anniston.....	.....	12	.....	New Britain.....	1	.....	.....
Birmingham.....	.....	6	1	New Haven.....	.....	.....	1
Dothan.....	.....	5	.....	Stonington.....	5	.....	.....
Arkansas:				District of Columbia:			
Little Rock.....	.....	1	.....	Washington.....	1	5	2
California:				Florida:			
Alameda.....	1	.....	.....	Tampa.....	3	2	.....
Berkeley.....	1	.....	.....	Georgia:			
Long Beach.....	.....	1	.....	Atlanta.....	.....	2	1
Los Angeles.....	8	.....	11	Rome.....	.....	5	.....
Oakland.....	.....	.....	1	Illinois:			
Sacramento.....	.....	1	.....	Chicago.....	28	28	7
San Diego.....	2	1	1	Cicero.....	.....	1	.....
San Francisco.....	4	5	.....	Danville.....	1	.....	.....
Connecticut:				Indiana:			
Bridgeport.....	1	.....	.....	Indianapolis.....	.....	.....	1
Hartford.....	.....	.....	1	Logansport.....	.....	.....	1

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## INFLUENZA—Continued.

City.	Cases.		Deaths, week ended May 5, 1923.	City.	Cases.		Deaths week ended May 5, 1923.
	Week ended May 6, 1922.	Week ended May 5, 1923.			Week ended May 6, 1922.	Week ended May 5, 1923.	
Kentucky:				New York—Continued.			
Louisville.....		3	2	Jamestown.....	1		
Louisiana:				Lockport.....	1		
Baton Rouge.....	3			New York.....	23	38	16
New Orleans.....	1	4	3	Saratoga Springs.....		1	
Maryland:				Ohio:			
Baltimore.....	5	10	4	Akron.....		1	
Massachusetts:				Cincinnati.....	1		1
Attleboro.....			1	Cleveland.....		1	1
Boston.....	2			Mansfield.....		1	
Cambridge.....		1		Norwood.....			1
Fall River.....		3	3	Toledo.....			1
Quincy.....		1		Youngstown.....			1
Saugus.....	4			Oregon:			
Somerville.....	1			Portland.....			1
Springfield.....		1	1	Pennsylvania:			
Worcester.....		1		Philadelphia.....	7	5	8
Michigan:				Rhode Island:			
Detroit.....	2			Cumberland.....		1	1
Pontiac.....		1		Providence.....	1		1
Saginaw.....	1		1	Tennessee:			
Minnesota:				Memphis.....		3	2
Minneapolis.....			1	Nashville.....			1
Missouri:				Texas:			
Kansas City.....	5	2	2	Dallas.....			1
St. Louis.....	3			Fort Worth.....	1		
New Jersey:				San Antonio.....			1
Harrison.....		1		Waco.....			1
Jersey City.....	1	1		Virginia:			
Kearny.....	2			Lynchburg.....			1
Newark.....	7	2		Petersburg.....	1		
Paterson.....	1			West Virginia:			
Trenton.....			1	Fairmont.....	3		
New York:				Wisconsin:			
Albany.....		4		Madison.....	1		
Auburn.....			1	Manitowoc.....	1		
Buffalo.....	4		1	Milwaukee.....	1		

## MALARIA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Maryland:		
Anniston.....	1		Baltimore.....	1	
Birmingham.....	2		Tennessee:		
Dothan.....	1		Memphis.....	10	
Arkansas:			Texas:		
Little Rock.....	2		Dallas.....	1	
Georgia:					
Albany.....	1				
Atlanta.....	2				

## MEASLES.

See p. 1158; also Current State summaries, p. 1146, and Monthly summaries by States, p. 1150.

## PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			South Carolina:		
Anniston.....	1		Columbia.....		1
Massachusetts:			Texas:		
Boston.....	1		Dallas.....		1
North Carolina:			Houston.....		2
Greensboro.....		1	Virginia:		
Raleigh.....		1	Portsmouth.....		1

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## PNEUMONIA (ALL FORMS).

City.	Cases.	Deaths.	City.	Cases.	Deaths.
<b>Alabama:</b>			<b>Maine—Continued.</b>		
Anniston.....	2	.....	Bath.....	2	.....
Birmingham.....	24	10	Biddeford.....	.....	1
Dothan.....	1	.....	Portland.....	.....	4
Montgomery.....	.....	5	Sanford.....	5	.....
<b>Arkansas:</b>			<b>Maryland:</b>		
Little Rock.....	1	.....	Baltimore.....	73	36
<b>California:</b>			Cumberland.....	1	.....
Eureka.....	2	.....	<b>Massachusetts:</b>		
Los Angeles.....	41	22	Amesbury.....	.....	1
Oakland.....	.....	3	Arlington.....	.....	2
Pasadena.....	.....	3	Beverly.....	1	.....
Riverside.....	.....	1	Boston.....	.....	33
Sacramento.....	.....	2	Brockton.....	.....	2
San Bernardino.....	1	.....	Cambridge.....	.....	2
San Diego.....	.....	3	Chelsea.....	2	1
San Francisco.....	10	5	Chicopee.....	.....	2
Santa Cruz.....	.....	1	Fall River.....	.....	3
Stockton.....	.....	1	Frammingham.....	.....	2
<b>Colorado:</b>			Gardner.....	.....	1
Denver.....	.....	13	Greenfield.....	.....	2
Pueblo.....	.....	2	Haverhill.....	2	.....
<b>Connecticut:</b>			Lowell.....	.....	11
Bridgeport.....	.....	2	Lynn.....	6	2
Bristol.....	.....	1	Malden.....	1	.....
Hartford.....	2	.....	Melrose.....	1	.....
New Haven.....	.....	6	New Bedford.....	.....	2
New London.....	.....	2	Newton.....	.....	1
Waterbury.....	.....	1	North Adams.....	.....	1
<b>District of Columbia:</b>			Peabody.....	.....	1
Washington.....	.....	16	Pittsfield.....	1	.....
<b>Georgia:</b>			Plymouth.....	.....	1
Atlanta.....	61	8	Quincy.....	.....	2
Macon.....	1	.....	Salem.....	1	.....
Rome.....	2	.....	Somerville.....	1	.....
Savannah.....	.....	5	Springfield.....	11	1
<b>Illinois:</b>			Taunton.....	.....	4
Alton.....	.....	1	Watertown.....	.....	1
Aurora.....	.....	1	Webster.....	2	.....
Champaign.....	1	.....	Woburn.....	.....	1
Chicago.....	287	97	Worcester.....	.....	4
Cicero.....	5	2	<b>Michigan:</b>		
East St. Louis.....	2	.....	Alpena.....	1	.....
Elgin.....	1	.....	Ann Arbor.....	2	.....
Evanston.....	3	.....	Battle Creek.....	3	1
Forest Park.....	1	.....	Flint.....	.....	10
Freeport.....	6	1	Grand Rapids.....	8	1
Jacksonville.....	.....	2	Hamtramck.....	6	2
Kewanee.....	1	.....	Highland Park.....	11	4
Le Salle.....	2	1	Jackson.....	.....	2
Mattoon.....	1	.....	Kalamazoo.....	.....	1
Oak Park.....	6	1	Marquette.....	1	.....
Rock Island.....	2	1	Muskegon.....	6	3
Springfield.....	11	7	Pontiac.....	3	2
<b>Indiana:</b>			Port Huron.....	2	.....
Bloomington.....	.....	1	Saginaw.....	.....	1
East Chicago.....	.....	4	Sault Ste Marie.....	1	.....
Fort Wayne.....	.....	2	<b>Minnesota:</b>		
Hammond.....	1	.....	Duluth.....	6	2
Indianapolis.....	.....	13	Faribault.....	.....	1
Kokomo.....	.....	1	Hibbing.....	.....	1
Laporte.....	.....	1	Minneapolis.....	.....	4
Muncie.....	.....	1	Rochester.....	.....	1
South Bend.....	.....	2	St. Paul.....	.....	13
Terre Haute.....	.....	2	<b>Missouri:</b>		
<b>Iowa:</b>			Kansas City.....	19	16
Burlington.....	5	2	St. Joseph.....	.....	3
Council Bluffs.....	.....	1	Springfield.....	.....	1
<b>Kansas:</b>			<b>Montana:</b>		
Coffeyville.....	1	.....	Billings.....	.....	1
Fort Scott.....	.....	1	Butte.....	.....	1
Kansas City.....	5	.....	Missoula.....	.....	1
Topeka.....	2	1	<b>Nebraska:</b>		
<b>Kentucky:</b>			Lincoln.....	.....	1
Covington.....	.....	7	Omaha.....	.....	9
Louisville.....	16	5	<b>Nevada:</b>		
<b>Louisiana:</b>			Reno.....	.....	1
New Orleans.....	12	8	<b>New Hampshire:</b>		
<b>Maine:</b>			Concord.....	.....	3
Auburn.....	.....	2	Manchester.....	.....	3
Bangor.....	3	.....			

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
New Jersey:			Ohio—Continued.		
Atlantic City.....		2	East Cleveland.....	1	
Belleville.....	1		East Youngstown.....		2
Clifton.....	2		Hamilton.....		2
East Orange.....	1		Lancaster.....		2
Elizabeth.....		3	Lorain.....		1
Englewood.....	2		Mansfield.....	4	2
Garfield.....	1		Martins Ferry.....		1
Hackensack.....		1	New Philadelphia.....	2	
Harrison.....	2		Newark.....		1
Hoboken.....		3	Niles.....		1
Jersey City.....	4		Norwood.....		1
Kearny.....	4	1	Sandusky.....		1
Morristown.....		1	Toledo.....		5
Newark.....	42	12	Youngstown.....		8
Orange.....	6		Zanesville.....		2
Passaic.....		3	Oregon:		
Paterson.....	12		Portland.....		5
Perth Amboy.....		1	Pennsylvania:		
Plainfield.....	2		Philadelphia.....	84	66
Summit.....		1	Rhode Island:		
Trenton.....	4	2	Cranston.....		2
New Mexico:			Cumberland.....		1
Albuquerque.....	1		Pawtucket.....		2
New York:			Providence.....		6
Albany.....	11		South Carolina:		
Auburn.....		1	Charleston.....		1
Buffalo.....	35	14	Greenville.....		1
Dunkirk.....	3	2	Tennessee:		
Glens Falls.....	2		Memphis.....		9
Hornell.....	2		Nashville.....		8
Ithaca.....		1	Texas:		
Lockport.....		1	Dallas.....		3
New York.....	292	173	El Paso.....		3
Newburgh.....		1	Fort Worth.....		1
North Tonawanda.....		2	Houston.....		3
Peekskill.....	2		San Antonio.....		1
Port Chester.....	4	1	Waco.....		3
Poughkeepsie.....		2	Utah:		
Rochester.....	23	3	Provo.....	3	
Rome.....	1		Vermont:		
Saratoga Springs.....	1		Rutland.....		1
Schenectady.....	2		Virginia:		
Syracuse.....	10	5	Alexandria.....		1
Troy.....	5	5	Norfolk.....	7	2
Watertown.....		1	Petersburg.....		1
White Plains.....	1		Richmond.....		6
Yonkers.....	1		West Virginia:		
North Carolina:			Huntington.....		8
Greensboro.....		5	Wheeling.....		3
Raleigh.....		1	Wisconsin:		
Wilmington.....	5	5	Beloit.....		1
Winston-Salem.....		2	Eau Claire.....	1	
Ohio:			Fond du Lac.....		1
Akron.....	6		Janesville.....		1
Ashtabula.....		1	Kenosha.....		5
Barberton.....		1	Madison.....		
Bucyrus.....		1	Milwaukee.....	5	
Chillicothe.....	1		Oshkosh.....		1
Cincinnati.....		11	Superior.....		4
Cleveland.....	33	29	Wyoming:		
Columbus.....		5	Cheyenne.....		1
Dayton.....	1				

## POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended May 5, 1923.		City.	Median for previous years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Connecticut:				New York:			
Waterbury.....	0	1		New York.....	1	1	1
New Hampshire:				Wisconsin:			
Manchester.....	0		1	Eau Claire.....	0	1	
New Jersey:				Milwaukee.....	0	1	
Atlantic City.....	0	1	1				

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Missouri:	
Los Angeles.....	17	Kansas City.....	3
Georgia:		New Jersey:	
Savannah.....	3	East Orange.....	1
Kentucky:		West Virginia:	
Louisville.....	1	Morgantown.....	1

RABIES IN MAN.<sup>1</sup>

City.	Cases.	Deaths.
Alabama:		
Tuscaloosa.....	1	1

<sup>1</sup> Report for week ended Apr. 28, 1923.

## ROCKY MOUNTAIN SPOTTED OR TICK FEVER.

City.	Cases.	Deaths.
Montana:		
Helena.....	1	.....

## SCARLET FEVER.

See p. 1158; also Current State summaries, p. 1146, and Monthly summaries by States, p. 1150.

## SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended May 5, 1923.		City.	Median for pre- vious years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Michigan—Continued.			
Anniston.....	0	7	.....	Grand Rapids.....	1	1	.....
Arkansas:				Highland Park.....	1	3	.....
Fort Smith.....	0	1	.....	Jackson.....	0	3	.....
California:				Minnesota:			
Los Angeles.....	1	20	.....	Duluth.....	0	6	.....
Stockton.....	0	4	.....	Minneapolis.....	23	4	.....
Georgia:				St. Cloud.....	3	2	.....
Atlanta.....	4	3	.....	St. Paul.....	8	2	.....
Savannah.....	0	1	.....	Missouri:			
Illinois:				St. Louis.....	7	1	.....
Rock Island.....	1	1	.....	Montana:			
Indiana:				Great Falls.....	1	1	.....
Anderson.....	0	1	.....	Missoula.....	0	2	.....
Fort Wayne.....	2	6	.....	New York:			
Huntington.....	3	11	.....	Niagara Falls.....	0	3	.....
Indianapolis.....	11	6	.....	North Carolina:			
South Bend.....	0	1	.....	Durham.....	0	1	.....
Iowa:				Greensboro.....	0	5	.....
Davenport.....	6	6	.....	Winston-Salem.....	5	22	.....
Kansas:				Ohio:			
Wichita.....	4	3	.....	Canton.....	1	1	.....
Kentucky:				Cincinnati.....	2	2	.....
Louisville.....	1	1	.....	Columbus.....	0	1	.....
Maine:				Dayton.....	1	3	.....
Auburn.....	0	1	.....	Middletown.....	0	2	.....
Michigan:				Newark.....	0	1	.....
Battle Creek.....	0	2	.....	Sandusky.....	0	2	.....
Flint.....	2	.....	1	Toledo.....	7	6	.....



## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## SMALLPOX—Continued.

City.	Median for pre- vious years.	Week ended May 5, 1923.		City.	Median for pre- vious years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Oklahoma:				Washington:			
Oklahoma.....	5	4		Seattle.....	6	6	
Tulsa.....	5	3		Spokane.....	11	3	
Oregon:				Tacoma.....	1	1	
Portland.....	1	8		Walla Walla.....	0	2	
Pennsylvania:				Wisconsin:			
Donora.....		1		Eau Claire.....	0	4	
Tennessee:				Kenosha.....	0	16	
Chattanooga.....	1	1		Madison.....	0	1	
Memphis.....	4	2		Milwaukee.....	6	1	
Texas:				Oshkosh.....	0	2	
El Paso.....	0	1		Racine.....	0	1	
Fort Worth.....	6	2		Superior.....	1	8	

## TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Oklahoma:		
Anniston.....	1		Oklahoma.....		1
Georgia:			Virginia:		
Savannah.....	1	1	Lynchburg.....		1
			Portsmouth.....		1

## TUBERCULOSIS.

See p. 1158; also Current State summaries, p. 1146.

## TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended May 5, 1923.		City.	Median for pre- vious years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Indiana:			
Dothan.....		1		Muncie.....	0	1	
Arkansas:				Kentucky:			
Little Rock.....	0	1		Covington.....	0	4	1
North Little Rock.....	0	1		Louisville.....	1	6	
California:				Louisiana:			
Los Angeles.....	1	1		New Orleans.....	3	4	1
Oakland.....	0	3	1	Maryland:			
Sacramento.....	0	1		Baltimore.....	4	3	
San Francisco.....	2	2		Massachusetts:			
Stockton.....	0		1	Adams.....	0	1	
Colorado:				Beverly.....	0		1
Denver.....	0	1		Boston.....	1	1	
Connecticut:				Fall River.....	0	1	
Bristol.....	0	1		Lawrence.....	1	1	1
District of Columbia:				Michigan:			
Washington.....	1	1		Grand Rapids.....	0	1	
Florida:				Muskegon.....	0	1	
Tampa.....	1	1	1	Minnesota:			
Georgia:				Rochester.....	0	1	
Albany.....	0	1		Missouri:			
Brunswick.....	0	1		Joplin.....	0	1	
Savannah.....	1		1	Kansas City.....	1	1	
Illinois:				St. Louis.....	2	1	
Chicago.....	1	2	1	New Jersey:			
				Newark.....	0	1	

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## TYPHOID FEVER—Continued.

City.	Median for pre- vious years.	Week ended May 5, 1923.		City.	Median for pre- vious years.	Week ended May 5, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
New York:				Tennessee:			
New York.....	11	10	2	Memphis.....	1	1	.....
Newburgh.....	0	1	.....	Nashville.....	1	.....	1
Watertown.....	0	1	.....	Texas:			
North Carolina:				El Paso.....	0	1	.....
Durham.....	0	1	.....	Fort Worth.....	0	1	1
Ohio:				San Antonio.....	2	.....	1
Akron.....	1	1	.....	Utah:			
Cincinnati.....	1	2	1	Provo.....	0	2	.....
Cleveland.....	2	5	.....	Virginia:			
New Philadelphia.....	0	1	.....	Portsmouth.....	0	1	1
Steubenville.....	0	1	.....	Washington:			
Youngstown.....	0	.....	1	Spokane.....	1	1	.....
Oregon:				West Virginia:			
Portland.....	0	1	.....	Bluefield.....	0	.....	1
Pennsylvania:				Charleston.....	0	1	.....
Beaver Falls.....	0	1	.....	Clarksburg.....	0	1	.....
Carnegie.....	0	2	.....	Huntington.....	0	.....	1
Philadelphia.....	7	3	.....	Parkersburg.....	0	2	.....
Pittsburgh.....	0	1	.....	Wheeling.....	0	1	.....
Reading.....	0	1	.....	Wisconsin:			
Sharon.....	0	1	.....	Janesville.....	0	1	.....
Washington.....	0	1	.....	Oshkosh.....	0	1	.....

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Anniston.....	17,734	.....	.....	.....	28	.....	.....	.....	1	.....
Birmingham.....	178,806	60	3	.....	265	1	1	.....	21	7
Dothan.....	10,034	2	.....	.....	1	.....	.....	.....	.....	.....
Montgomery.....	43,464	13	.....	.....	221	.....	.....	.....	1	.....
Tuscaloosa.....	11,996	.....	.....	.....	33	.....	.....	.....	.....	.....
Arkansas:										
Fort Smith.....	28,870	.....	.....	.....	2	.....	.....	.....	.....	.....
Little Rock.....	65,142	.....	.....	.....	87	.....	1	.....	4	.....
North Little Rock.....	14,048	.....	.....	.....	27	.....	1	.....	.....	.....
California:										
Alameda.....	28,806	3	.....	.....	26	.....	.....	.....	.....	.....
Eureka.....	12,923	.....	.....	.....	6	.....	.....	.....	3	.....
Glendale.....	13,536	7	.....	.....	.....	.....	.....	.....	.....	.....
Long Beach.....	55,593	11	6	1	.....	.....	7	.....	.....	.....
Los Angeles.....	576,673	210	68	5	180	1	34	.....	41	22
Oakland.....	216,261	58	6	.....	157	2	3	1	1	3
Pasadena.....	45,354	8	3	.....	7	.....	6	.....	1	.....
Richmond.....	16,843	2	.....	.....	2	.....	2	.....	1	.....
Riverside.....	19,341	10	.....	.....	2	.....	.....	.....	6	2
Sacramento.....	65,908	13	2	.....	32	.....	5	.....	3	1
San Bernardino.....	18,721	13	2	.....	6	.....	28	.....	.....	2
San Diego.....	74,683	32	2	.....	55	.....	5	.....	1	3
San Francisco.....	506,676	141	27	4	79	1	17	.....	31	11
Santa Ana.....	15,485	9	.....	.....	3	.....	.....	.....	.....	.....
Santa Barbara.....	19,441	5	.....	.....	.....	.....	.....	.....	.....	.....
Santa Cruz.....	10,917	6	.....	.....	.....	.....	.....	.....	.....	.....
Stockton.....	40,296	14	.....	.....	160	2	1	.....	1	1
Colorado:										
Denver.....	256,491	90	26	2	636	3	16	.....	.....	8
Pueblo.....	43,050	8	.....	.....	.....	.....	.....	.....	.....	1
Trinidad.....	10,908	.....	2	1	.....	.....	.....	.....	.....	.....
Connecticut:										
Bridgeport.....	143,555	33	7	1	7	.....	10	.....	7	4
Bristol.....	20,620	5	.....	.....	.....	.....	.....	.....	.....	.....
Fairfield (town).....	11,475	2	.....	.....	1	.....	.....	.....	.....	.....
Hartford.....	138,036	34	12	.....	.....	.....	3	.....	8	4
Manchester (town).....	18,370	5	3	.....	.....	.....	1	.....	.....	.....

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHtheria, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Connecticut—Continued.										
Meriden (town).....	34,764	.....	2	.....	.....	.....	1	.....	1	.....
Milford (town).....	10,193	.....	4	.....	2	.....	.....	.....	.....	.....
New Haven.....	162,537	46	1	.....	41	.....	4	.....	10	3
New London.....	25,688	8	3	.....	14	.....	1	.....	1	.....
Waterbury.....	91,715	18	8	.....	21	2	7	.....	.....	.....
District of Columbia:										
Washington.....	437,571	122	7	1	547	2	39	1	31	11
Florida:										
St. Petersburg.....	14,237	3	.....	.....	3	.....	.....	.....	.....	1
Tampa.....	51,608	11	.....	.....	3	.....	.....	.....	1	.....
Georgia:										
Albany.....	11,555	.....	.....	.....	20	.....	.....	.....	.....	.....
Atlanta.....	200,616	74	1	.....	29	.....	4	.....	16	6
Brunswick.....	14,413	2	.....	.....	.....	.....	.....	.....	.....	.....
Macon.....	52,995	.....	.....	.....	65	.....	.....	.....	.....	.....
Rome.....	13,252	.....	1	.....	2	.....	1	.....	1	.....
Savannah.....	83,252	33	.....	.....	24	.....	.....	.....	1	1
Valdosta.....	10,783	1	.....	.....	.....	.....	.....	.....	.....	.....
Idaho:										
Boise.....	21,393	2	.....	.....	.....	.....	.....	.....	.....	.....
Illinois:										
Alton.....	24,682	5	1	.....	86	.....	.....	.....	.....	.....
Aurora.....	36,397	10	1	.....	32	.....	2	.....	2	.....
Bloomington.....	28,725	2	.....	.....	20	.....	1	.....	.....	.....
Centralia.....	12,491	4	.....	.....	12	.....	.....	.....	.....	.....
Champaign.....	15,873	.....	.....	.....	25	.....	.....	.....	.....	.....
Chicago.....	2,701,705	719	113	6	936	17	87	2	400	54
Cicero.....	44,995	6	.....	.....	115	.....	.....	.....	1	.....
Decatur.....	43,818	3	.....	.....	26	.....	.....	.....	4	.....
East St. Louis.....	66,767	5	.....	.....	11	.....	1	.....	.....	2
Elgin.....	27,454	6	.....	.....	13	.....	.....	.....	3	.....
Evanston.....	37,234	4	.....	.....	91	.....	2	.....	1	.....
Forest Park.....	10,768	.....	.....	.....	3	.....	.....	.....	.....	.....
Freeport.....	19,669	4	.....	.....	63	.....	.....	.....	.....	.....
Galesburg.....	23,834	7	.....	.....	15	.....	.....	.....	.....	.....
Jacksonville.....	15,713	12	.....	.....	1	.....	.....	.....	2	.....
Kewanee.....	16,026	9	.....	.....	2	.....	1	.....	.....	.....
La Salle.....	13,050	3	.....	.....	.....	.....	.....	.....	.....	1
Mattoon.....	13,552	.....	.....	.....	31	.....	.....	.....	1	.....
Oak Park.....	39,858	8	1	.....	49	.....	4	.....	.....	.....
Quincy.....	35,978	13	.....	.....	25	.....	.....	.....	.....	.....
Rock Island.....	35,177	8	.....	.....	3	.....	1	.....	3	.....
Rockford.....	65,651	18	.....	.....	36	.....	.....	.....	.....	.....
Springfield.....	59,183	21	1	.....	14	.....	1	.....	3	1
Indiana:										
Anderson.....	29,767	5	1	.....	1	.....	1	.....	1	.....
Bloomington.....	11,595	7	.....	.....	14	.....	2	.....	.....	.....
Crawfordsville.....	10,139	2	.....	.....	.....	.....	.....	.....	.....	.....
East Chicago.....	35,967	8	1	.....	38	.....	.....	.....	.....	3
Elwood.....	10,790	2	.....	.....	.....	.....	.....	.....	.....	1
Fort Wayne.....	86,549	30	5	.....	7	.....	6	.....	.....	2
Frankfort.....	11,585	1	.....	.....	.....	.....	1	.....	.....	.....
Hammond.....	39,004	9	.....	.....	8	.....	1	.....	.....	.....
Huntington.....	14,000	3	.....	.....	.....	.....	.....	.....	.....	.....
Indianapolis.....	314,194	100	6	.....	367	.....	6	.....	11	4
Kokomo.....	30,067	6	2	.....	5	.....	2	.....	.....	.....
La Fayette.....	22,486	6	.....	.....	17	.....	.....	.....	.....	.....
Lafayette.....	15,158	4	.....	.....	.....	.....	.....	.....	.....	.....
Laporte.....	21,626	4	.....	.....	5	.....	.....	.....	.....	.....
Logansport.....	19,457	5	.....	.....	.....	.....	.....	.....	.....	.....
Michigan City.....	15,195	5	.....	.....	.....	.....	.....	.....	.....	.....
Mishawaka.....	36,524	5	.....	.....	.....	.....	3	.....	1	.....
Muncie.....	70,983	14	.....	.....	21	.....	.....	.....	.....	.....
South Bend.....	66,053	24	4	.....	104	.....	7	.....	3	.....
Terre Haute.....	66,053	24	4	.....	.....	.....	4	.....	.....	3
Iowa:										
Burlington.....	24,057	9	1	.....	14	.....	1	.....	.....	.....
Clinton.....	24,151	.....	.....	.....	.....	.....	.....	.....	.....	.....
Council Bluffs.....	36,162	8	1	.....	2	.....	3	.....	.....	1
Davenport.....	56,727	.....	1	.....	8	.....	.....	.....	.....	.....
Dubuque.....	39,141	.....	.....	.....	7	1	1	.....	.....	.....
Iowa City.....	11,267	.....	.....	.....	.....	.....	3	.....	.....	.....
Marshalltown.....	15,731	1	.....	.....	2	.....	1	.....	.....	1
Muscatine.....	16,068	5	2	.....	3	.....	.....	.....	.....	.....
Sioux City.....	71,227	.....	.....	.....	.....	.....	3	.....	.....	.....

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Kansas:</b>										
Atchison.....	12,630	.....	2	.....	.....	.....	.....	.....	.....	.....
Coffeyville.....	13,452	.....	2	.....	90	.....	.....	.....	.....	.....
Fort Scott.....	10,663	.....	2	1	.....	.....	.....	.....	.....	.....
Kansas City.....	101,177	.....	3	.....	297	.....	1	.....	9	.....
Lawrence.....	12,456	.....	1	.....	1	.....	2	.....	.....	.....
Parsons.....	16,628	.....	.....	.....	10	.....	.....	.....	.....	.....
Topeka.....	50,022	.....	21	.....	3	.....	.....	.....	7	1
Wichita.....	72,217	.....	23	1	8	.....	.....	.....	.....	1
<b>Kentucky:</b>										
Covington.....	57,121	.....	30	.....	2	.....	1	2	.....	1
Henderson.....	12,169	.....	3	.....	4	.....	.....	.....	.....	.....
Lexington.....	41,534	.....	16	1	1	.....	1	.....	2	2
Louisville.....	234,891	.....	68	1	109	1	2	.....	11	5
Owensboro.....	17,424	.....	.....	.....	1	.....	.....	.....	1	.....
Paducah.....	24,735	.....	.....	1	1	.....	.....	.....	.....	.....
<b>Louisiana:</b>										
New Orleans.....	387,219	.....	133	7	10	1	4	.....	12	16
<b>Maine:</b>										
Auburn.....	16,985	.....	4	.....	24	.....	3	.....	1	.....
Bangor.....	25,978	.....	.....	.....	14	.....	.....	.....	.....	.....
Bath.....	14,731	.....	1	.....	.....	.....	.....	.....	1	.....
Biddeford.....	18,008	.....	5	.....	2	.....	.....	.....	.....	1
Lewiston.....	31,791	.....	8	.....	19	.....	12	.....	1	.....
Portland.....	69,272	.....	23	3	19	.....	3	.....	.....	2
Sanford (town).....	10,661	.....	3	.....	44	.....	.....	.....	.....	.....
Waterville.....	13,351	.....	.....	.....	1	.....	.....	.....	.....	.....
<b>Maryland:</b>										
Baltimore.....	733,826	.....	210	27	629	4	108	1	26	18
Cumberland.....	29,837	.....	10	.....	6	.....	.....	.....	1	.....
Frederick.....	11,066	.....	4	.....	1	.....	1	.....	1	.....
<b>Massachusetts:</b>										
Adams (town).....	12,967	.....	2	.....	2	.....	1	.....	1	1
Amesbury (town).....	10,036	.....	5	.....	.....	.....	.....	.....	.....	.....
Arlington (town).....	18,665	.....	6	.....	10	.....	3	.....	.....	.....
Attleboro.....	19,731	.....	5	.....	2	.....	.....	.....	3	.....
Belmont (town).....	10,749	.....	3	.....	13	.....	1	.....	.....	.....
Beverly.....	22,561	.....	6	.....	2	.....	.....	.....	2	.....
Boston.....	745,060	.....	221	56	242	3	74	4	58	19
Braintree (town).....	10,580	.....	.....	1	9	.....	1	.....	1	.....
Brockton.....	66,254	.....	12	1	53	.....	3	.....	5	.....
Brookline.....	37,748	.....	15	1	8	.....	1	.....	.....	.....
Cambridge.....	109,694	.....	31	7	62	.....	10	.....	8	4
Chelsea.....	43,184	.....	10	1	.....	.....	6	.....	2	.....
Chicopee.....	36,214	.....	10	.....	1	.....	4	.....	2	.....
Clinton.....	12,979	.....	2	.....	1	.....	.....	.....	.....	.....
Danvers.....	11,108	.....	.....	.....	.....	.....	3	.....	.....	.....
Dedham.....	10,792	.....	2	.....	.....	.....	.....	.....	.....	.....
Easthampton.....	11,261	.....	.....	1	1	.....	.....	.....	.....	.....
Everett.....	40,120	.....	1	1	22	.....	5	.....	1	.....
Fall River.....	120,485	.....	27	3	1	.....	3	.....	10	4
Fitchburg.....	41,029	.....	8	.....	.....	.....	.....	.....	.....	.....
Frammingham.....	17,033	.....	8	.....	6	.....	2	.....	1	.....
Gardner.....	16,971	.....	8	.....	10	.....	.....	.....	1	.....
Greenfield.....	15,462	.....	5	.....	.....	.....	.....	.....	2	.....
Haverhill.....	53,884	.....	14	1	38	.....	8	.....	.....	2
Lawrence.....	94,270	.....	12	1	32	.....	.....	.....	.....	.....
Leominster.....	19,744	.....	5	.....	.....	.....	2	.....	.....	2
Lowell.....	112,759	.....	44	2	22	.....	6	.....	4	3
Lynn.....	99,148	.....	24	4	7	.....	9	.....	9	3
Malden.....	49,103	.....	11	1	20	.....	7	.....	2	.....
Medford.....	39,038	.....	5	1	12	.....	7	.....	2	.....
Melrose.....	18,204	.....	5	.....	13	.....	6	.....	1	.....
Methuen.....	15,189	.....	7	.....	12	.....	.....	.....	.....	.....
New Bedford.....	121,217	.....	.....	2	1	.....	3	.....	10	6
Newburyport.....	15,618	.....	4	.....	8	.....	.....	.....	.....	.....
Newton.....	46,054	.....	13	1	3	.....	5	.....	2	1
North Adams.....	22,282	.....	4	1	.....	.....	2	.....	.....	1
Northampton.....	21,951	.....	7	.....	.....	.....	3	.....	.....	.....
Northbridge.....	10,174	.....	1	.....	.....	.....	.....	.....	.....	.....
Peabody.....	19,552	.....	5	.....	.....	.....	.....	.....	.....	1
Pittsfield.....	41,763	.....	15	2	.....	.....	4	.....	4	.....
Plymouth.....	13,045	.....	6	.....	.....	.....	.....	.....	.....	.....
Quincy.....	47,876	.....	9	1	5	.....	13	.....	1	.....
Salem.....	42,529	.....	.....	.....	4	.....	5	.....	2	.....

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Massachusetts—Continued.										
Somerville.....	93,091	24	3	.....	29	1	6	.....	6	.....
Springfield.....	129,614	20	2	.....	3	.....	8	.....	3	1
Taunton.....	37,137	19	1	.....	16	.....	7	1	3	2
Wakefield.....	13,025	2	1	.....	10	.....	2	.....	.....	.....
Waltham.....	30,915	12	.....	1	4	.....	3	.....	2	.....
Watertown.....	21,457	4	.....	.....	1	.....	6	.....	.....	.....
Webster.....	13,258	.....	.....	.....	1	.....	4	.....	.....	.....
West Springfield.....	13,443	2	.....	.....	.....	.....	.....	.....	.....	.....
Westfield.....	18,604	2	.....	.....	.....	.....	1	.....	.....	.....
Winthrop.....	15,455	4	1	.....	6	.....	.....	.....	.....	.....
Woburn.....	16,574	6	.....	.....	.....	.....	.....	.....	.....	.....
Worcester.....	179,754	44	2	.....	81	.....	7	.....	.....	5
Michigan:										
Ann Arbor.....	19,516	8	.....	.....	10	.....	.....	.....	1	.....
Battle Creek.....	36,164	1	1	.....	44	.....	.....	.....	.....	.....
Benton Harbor.....	12,233	6	1	.....	4	.....	3	.....	.....	.....
Flint.....	91,599	35	7	.....	37	.....	4	.....	1	1
Grand Rapids.....	137,634	39	5	.....	149	.....	4	.....	6	6
Hamtramck.....	48,615	6	3	.....	2	.....	.....	.....	.....	.....
Highland Park.....	46,499	12	.....	.....	61	.....	6	.....	.....	1
Jackson.....	48,374	17	.....	.....	223	1	3	.....	.....	.....
Kalamazoo.....	48,487	21	.....	.....	7	1	2	.....	3	3
Marquette.....	12,718	3	.....	.....	1	.....	6	.....	.....	.....
Muskegon.....	36,570	10	1	.....	41	.....	1	1	.....	.....
Pontiac.....	34,273	3	1	.....	77	.....	7	.....	.....	1
Port Huron.....	25,944	13	.....	.....	1	.....	.....	.....	.....	.....
Saginaw.....	61,903	21	1	.....	9	.....	7	.....	3	.....
Sault Ste. Marie.....	12,096	5	.....	.....	.....	.....	1	.....	.....	.....
Minnesota:										
Duluth.....	98,917	13	.....	.....	34	.....	3	.....	7	.....
Fairbault.....	11,089	4	.....	.....	33	.....	4	.....	.....	.....
Hibbing.....	15,089	2	.....	.....	2	.....	5	.....	.....	.....
Minneapolis.....	380,582	107	12	1	274	6	20	.....	17	11
Rochester.....	13,722	19	.....	.....	.....	.....	.....	.....	2	1
St. Cloud.....	15,873	.....	.....	.....	10	.....	1	.....	.....	.....
St. Paul.....	234,668	63	22	1	409	1	31	.....	9	2
Winona.....	19,143	.....	.....	.....	2	.....	1	.....	.....	.....
Mississippi:										
Biloxi.....	10,937	0	.....	.....	1	.....	.....	.....	.....	.....
Missouri:										
Cape Girardeau.....	10,252	4	.....	.....	8	.....	.....	.....	.....	.....
Independence.....	11,686	0	.....	.....	3	.....	.....	.....	.....	.....
Joplin.....	29,902	.....	.....	.....	1	.....	.....	.....	.....	.....
Kansas City.....	324,410	84	5	.....	381	3	10	.....	10	6
St. Joseph.....	77,939	30	.....	.....	6	.....	8	.....	.....	.....
St. Louis.....	772,897	216	29	1	764	8	16	.....	28	16
Springfield.....	39,631	10	.....	.....	.....	.....	.....	.....	.....	.....
Montana:										
Anaconda.....	11,668	2	.....	.....	.....	.....	.....	.....	.....	.....
Billings.....	15,100	5	.....	.....	.....	.....	.....	.....	.....	.....
Butte.....	41,611	20	3	.....	.....	.....	1	.....	.....	4
Great Falls.....	24,121	11	2	1	.....	.....	.....	.....	2	2
Helena.....	12,037	7	.....	.....	.....	.....	.....	.....	.....	1
Missoula.....	12,668	4	.....	.....	.....	.....	1	.....	.....	.....
Nebraska:										
Lincoln.....	54,948	16	.....	.....	1	.....	4	.....	1	.....
Omaha.....	191,601	54	1	.....	13	.....	3	.....	.....	2
Nevada:										
Reno.....	12,016	6	.....	.....	3	.....	1	.....	.....	.....
New Hampshire:										
Berlin.....	16,104	3	.....	.....	.....	.....	.....	.....	.....	.....
Concord.....	22,167	14	.....	.....	5	.....	5	.....	.....	2
Dover.....	13,029	3	.....	.....	.....	.....	.....	.....	.....	.....
Keene.....	11,210	2	1	.....	.....	.....	.....	.....	.....	.....
Manchester.....	78,384	23	2	.....	6	.....	.....	.....	.....	1
New Jersey:										
Asbury Park.....	12,400	0	.....	.....	41	.....	.....	.....	.....	.....
Atlantic City.....	50,707	20	.....	.....	6	.....	1	.....	.....	.....
Bayonne.....	76,754	.....	2	.....	.....	.....	.....	.....	.....	.....
Belleville.....	15,660	.....	2	.....	17	.....	.....	.....	.....	.....
Bloomfield.....	22,019	0	.....	.....	2	.....	1	.....	1	.....
Clifton.....	26,470	2	.....	.....	4	.....	2	.....	.....	.....
East Orange.....	50,710	7	1	.....	21	.....	3	.....	3	1
Elizabeth.....	95,783	.....	1	.....	12	.....	11	.....	.....	4

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Jersey—Continued.										
Englewood.....	11,627				7					
Garfield.....	19,381	5				1	1		1	
Hackensack.....	17,667	5			10		1		1	
Harrison.....	15,721		2		4				1	
Hoboken.....	68,166	21			1		1		2	
Jersey City.....	298,103		11		11		19		11	
Kearny.....	26,724	4			22		1			
Long Branch.....	13,521	5			1				2	
Montclair.....	28,810	1			29		2		1	
Morristown.....	12,548	7						1		
Newark.....	414,524	102	16	2	200	1	13		21	4
Orange.....	33,268	6			18		4		3	1
Passaic.....	63,841	16			10		2		7	2
Paterson.....	135,875		9		53		5		10	
Perth Amboy.....	41,707	7	1		1		3		2	
Phillipsburg.....	16,923	4								
Plainfield.....	27,700	1			1					
Summit.....	10,174	2	1		2					
Trenton.....	119,289	41	4				5		8	4
Union (town).....	20,651				1		1			
West Hoboken.....	40,074	7								1
West New York.....	29,926	3	3		12					
West Orange.....	15,573	3	1		8				1	
New Mexico:										
Albuquerque.....	15,157	5	2				1		3	2
New York:										
Albany.....	113,344		5		54		7		9	
Auburn.....	36,192	13	1			1	48		1	1
Buffalo.....	506,775	138	12	1	194	3	20		24	13
Cohoes.....	22,957	5								
Dunkirk.....	19,336	7			5					
Geneva.....	14,648	4								2
Glens Falls.....	16,638	6			1		1		1	
Hornell.....	15,025	1			35					
Hudson.....	11,745	5							2	
Ithaca.....	17,004	5			8				1	
Lackawanna.....	17,918	2	1		1		2		2	
Little Falls.....	13,029	1								
Lockport.....	21,308	5					1			
Mount Vernon.....	42,726	8							1	1
New York.....	5,620,048	1,423	166	12	580	15	255	3	1,333	1,119
Newburgh.....	30,366	8			1		1		2	2
Niagara Falls.....	50,780	12	1		7		4		1	
North Tonawanda.....	15,482	8			18	1	3			
Peekskill.....	15,868	3			14	1				1
Port Chester.....	16,573	5					1		1	
Poughkeepsie.....	35,000	10			2		5			
Rochester.....	295,750	98	12		41	3			10	6
Rome.....	26,341	3					6			1
Saratoga Springs.....	13,181	5			2	1			1	
Schenectady.....	88,723	18	1		24		3		1	2
Syracuse.....	171,717	47	7	1	162	1	22		6	6
Troy.....	72,013	31	1		6		3		2	
Watertown.....	31,285	10	3		1		1			1
White Plains.....	21,031	1			2		3			
Yonkers.....	100,176	16	4	1	6		10			1
North Carolina:										
Durham.....	21,719	18			119				3	1
Greensboro.....	43,525	17	1		59		1		2	
Raleigh.....	24,418	14			37					1
Rocky Mount.....	12,742	4								
Wilmington.....	33,372	15			2					2
Winston-Salem.....	48,395	24			9				6	2
North Dakota:										
Fargo.....	21,961	0					1			
Grand Forks.....	14,010						2			
Ohio:										
Akron.....	208,435	31	1		104		13		2	
Ashtabula.....	22,082	3					3		2	
Barberton.....	18,811	2			9				1	
Bucyrus.....	10,425	3			5					
Cambridge.....	13,104	5								

¹ Pulmonary only.

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Ohio—Continued.											
Canton.....	87,091			3		15				2	
Chillicothe.....	15,831	4				4				3	
Cincinnati.....	401,247	125	1			57	1	12		12	
Cleveland.....	796,841	187	20			326	2	111	1	39	22
Cleveland Heights.....	15,236					124		7			
Columbus.....	237,031	75	1			115		6		10	4
Coshocton.....	10,847		1			8					
Dayton.....	152,559	54	2			51		10		1	
East Cleveland.....	27,292	5				54		13		2	
East Youngstown.....	11,237	3					1				
Findlay.....	17,021	6				10		1		1	1
Fremont.....	12,468	3				4					
Hamilton.....	39,675	14				21		1			
Kenmore.....	12,683					43					
Lancaster.....	14,706	7	1								
Lima.....	41,326	5				13		1		1	
Lorain.....	37,295		2			23		7			
Mansfield.....	27,824	7	1			20				1	1
Marion.....	27,891	0				4		5			
Martins Ferry.....	11,634	4						1			
Middletown.....	23,504	2				23	1				
New Philadelphia.....	10,718		2			7		5			
Newark.....	26,718	3				35		1			
Niles.....	13,080	4	6			14					
Norwood.....	24,966	3				12					
Piqua.....	15,044	3	1			1				1	
Salem.....	10,305	5				3				2	
Sandusky.....	22,897	5				33	1				1
Springfield.....	60,840	18				31	1	4			3
Steubenville.....	28,508	9	1			8				2	
Tiffin.....	14,375	2				7	1				
Toledo.....	243,164	55	7			27		41		5	8
Youngstown.....	132,358	34	7	1		45	1	6		1	
Zanesville.....	29,569	13									2
Oklahoma:											
Oklahoma.....	91,295	16	1			8		4			2
Tulsa.....	72,075		2			11				7	
Oregon:											
Portland.....	258,288	53	7			2		10		1	4
Pennsylvania:											
Allentown.....	73,502			5		35		23		6	
Altoona.....	60,331					6		1			
Ambridge.....	12,730		1			1					
Beaver Falls.....	12,802					3					
Berwick.....	12,181							1			
Bethlehem.....	50,358		1			69		1		2	
Braddock.....	20,879					4				1	
Bradford.....	15,525					49		1			
Butler.....	23,778		1			8		1			
Carbondale.....	18,640		1					1			
Carnegie.....	11,516		1					1			
Carrick.....	10,504					2				1	
Chambersburg.....	13,171					6		4			
Charleroi.....	11,516		1			23					
Chester.....	58,030		3			10		1			
Coatesville.....	14,515		1			1		2		5	
Connellsville.....	13,804		1			42		3		3	
Donora.....	14,131					3					
Dubois.....	13,681					20					
Dunmore.....	20,250					7					
Easton.....	33,813		2			36		1			
Erie.....	93,372		4			133		10			
Farrell.....	15,586					25		1			
Greensburg.....	15,033					1		1			
Harrisburg.....	75,917		1			19		1			
Hazleton.....	32,277					3		1			
Homestead.....	20,452					3		1			
Jeannette.....	10,627		1			3					
Lancaster.....	53,150		2			29		3			
Lebanon.....	24,643		2			9		3			
McKees Rocks.....	16,713					9					
McKeesport.....	46,781					7					
Mahanoy City.....	15,599					1					
Meadville.....	14,568					20					

## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
Mount Carmel.....	17,469			1		1				
Nanticoke.....	22,614					21			1	
New Kensington.....	11,987			1						
Norristown.....	32,319					2		1	2	
North Braddock.....	14,928			1		2				
Oil City.....	21,274			1		32			2	
Philadelphia.....	1,823,779	536	52	3	90		65	3	74	46
Phoenixville.....	10,484				1		1			
Pittsburgh.....	588,343		15		151		31		17	
Pittston.....	18,497						1			
Plymouth.....	16,500				2					
Pottstown.....	17,431				1				1	
Pottsville.....	21,876			1		10			1	
Reading.....	107,794			2		5		2	4	
Scranton.....	137,783			2		82		1	5	
Shamokin.....	21,204				4					
Sharon.....	21,746				20		1			
Shenandoah.....	24,726			1						
Steelton.....	13,428			1			1		2	
Sunbury.....	15,721				3		1			
Swissvale.....	10,908				7		1			
Tamaqua.....	12,363				7					
Uniontown.....	15,662			1		11		1	1	
Warren.....	14,272				145					
Washington.....	21,480								1	
Wilkes-Barre.....	73,883			3		10		2	1	
Wilkesburg.....	24,403					7		1		
Williamsport.....	36,198					8				
York.....	47,512					85		3		
Rhode Island:										
Cranston.....	29,407	7				10				
Cumberland (town).....	10,077	5	1			2				
Newport.....	30,255	6	2							
Pawtucket.....	64,246	22	3							1
Providence.....	237,595	71	6		109	6	8			
South Carolina:										
Charleston.....	67,957	23							1	2
Columbia.....	37,524	11				3			2	1
Greenville.....	23,127	4				1				2
South Dakota:										
Sioux Falls.....	25,202	6	3			5		2		
Tennessee:										
Chattanooga.....	57,895		1							
Memphis.....	162,351	69	4		28		2		24	4
Nashville.....	118,342	46			140	1				3
Texas:										
Amarillo.....	15,494			1						1
Beaumont.....	40,422	2	1							
Dallas.....	158,976	37	1			10		1	1	2
El Paso.....	77,580	47	2			31	2	2	5	5
Fort Worth.....	106,482	11	2			1				
Galveston.....	44,255	13								
Houston.....	138,276	36	6			4		4		1
San Angelo.....	10,050	11								2
San Antonio.....	161,379	45				7		1		10
Waco.....	38,500	6	1			3			2	
Utah:										
Provo.....	10,303	4								
Salt Lake City.....	118,110	26	3			6			3	2
Vermont:										
Barre.....	10,008					56		3		
Burlington.....	22,779	4				39				
Rutland.....	14,954	8				1		2		
Virginia:										
Alexandria.....	18,060	5				20		1		
Lynchburg.....	30,070	11				37		1		2
Norfolk.....	115,777		2			144			5	4
Petersburg.....	31,012	12				36		1	2	1
Portsmouth.....	54,387	7				31		1		
Richmond.....	171,667	48	2			359	1		6	2
Washington:										
Aberdeen.....	15,337							2		
Seattle.....	315,312		2			28		4	3	



## CITY REPORTS FOR WEEK ENDED MAY 5, 1923—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Washington—Continued.										
Spokane.....	104,437		5				2			
Tacoma.....	96,965		1		3		3			
Vancouver.....	12,637		1		1					
West Virginia:										
Bluefield.....	15,282	4	1		36	1				
Charleston.....	39,608	20			9		3			
Clarksburg.....	27,899	5			95		3		1	1
Fairmont.....	17,851				8		2			
Huntington.....	50,177	26	1	3	125					2
Martinsburg.....	12,515				3					
Morgantown.....	12,127				1					
Moundsville.....	10,669	4	2				1			
Parkersburg.....	20,050	4			14					
Wheeling.....	56,208	12	1		33		2		3	
Wisconsin:										
Appleton.....	19,561	5								
Ashland.....	11,334						1			
Beloit.....	21,284	2	6		121		10		1	
Eau Claire.....	20,906				3					
Fond du Lac.....	23,427	7					1			
Green Bay.....	31,017						16			
Janesville.....	18,293	6			19					
Kenosha.....	40,472	15	2		1		2		3	
Madison.....	38,378	6			112		5		4	
Manitowoc.....	17,563				20		1			
Marinette.....	13,610	4	1		2		1		1	
Milwaukee.....	457,147	113	20	3	29		196	1	20	10
Oshkosh.....	33,162	18			21		1		1	1
Racine.....	58,593	15			23	1	2		1	3
Sheboygan.....	30,955	6	4		8					
Stevens Point.....	11,371				14					
Superior.....	39,671	8			44					
Waukesha.....	12,558		1		44		6			
Wausau.....	18,661		1		85		1		2	
West Allis.....	13,745				2		3			
Wyoming:										
Cheyenne.....	13,829	5					1			

## FOREIGN AND INSULAR.

### CUBA.

#### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana, Cuba, as follows:

Disease.	May 1-10, 1923.		Remain- ing under treat- ment May 10, 1923.
	New cases.	Deaths.	
Chicken pox.....	2	.....	5
Diphtheria.....	1	1	3
Leprosy.....	1	1	<sup>1</sup> 12
Malaria.....	23	1	<sup>2</sup> 31
Poliomyelitis (infantile paralysis).....	.....	.....	<sup>3</sup> 3
Scarlet fever.....	.....	.....	4
Typhoid fever.....	12	1	<sup>4</sup> 24

<sup>1</sup> From abroad, 1.

<sup>2</sup> From the interior, 24.

<sup>3</sup> From abroad, 2.

<sup>4</sup> From the interior, 14.

### HAWAII.

#### Plague-Infected Rat—Pohakea.

The finding of a plague-infected rat was reported at Pohakea, Hamakua, Hawaii, April 15, 1923.

### POLAND.

#### Communicable Diseases—January 28–February 24, 1923.

Communicable diseases have been reported in Poland as follows:

JANUARY 28–FEBRUARY 3, 1923.

Disease.	Cases.	Deaths.	Districts and city showing greatest mortality.
Cerebrospinal meningitis.....	10	4	Lodz.
Diphtheria.....	60	5	Warsaw (district); Lodz.
Measles.....	616	30	Lodz.
Scarlet fever.....	214	32	Krakow; Lwow.
Smallpox.....	9	5	Stanislawow.
Tuberculosis.....	96	215	Lodz; Lwow; Warsaw City.
Typhoid fever.....	234	14	Lodz.
Typhus fever.....	410	27	Lwow.
Typhus fever, recurrent.....	102	.....	.....
Whooping cough.....	67	14	Warsaw City.

## FEBRUARY 4-10, 1923.

Disease.	Cases.	Deaths.	Districts and city showing greatest mortality.
Cerebrospinal meningitis.....	14	7	Lodz.
Diphtheria.....	83	11	Lodz.
Measles.....	1,288	30	Lodz.
Scarlet fever.....	219	55	Krakow; Stanislawow.
Smallpox.....	9	4	Lublin.
Tuberculosis.....	125	299	Lodz; Lwow; Warsaw City.
Typhoid fever.....	272	27	Krakow; Lodz.
Typhus fever.....	493	34	Stanislawow.
Typhus fever, recurrent.....	95	6	Nowogrodek.
Whooping cough.....	62	12	Lodz.

## FEBRUARY 11-17, 1923.

Cerebrospinal meningitis.....	12	8	Warsaw City.
Diphtheria.....	10	12	Krakow.
Measles.....	1,299	28	Lodz.
Scarlet fever.....	252	37	Lwow.
Smallpox.....	15	3	Lublin.
Tuberculosis.....	109	199	Krakow; Lodz; Lwow; Warsaw
Typhoid fever.....	255	14	Lwow.
Typhus fever.....	321	32	Lwow.
Typhus fever, recurrent.....	98	4	Bialystok; Nowogrodek; Vilna.
Whooping cough.....	174	20	Stanislawow.

## FEBRUARY 18-24, 1923.

Cerebrospinal meningitis.....	12	12	Kielce.
Diphtheria.....	87	12	Lodz.
Measles.....	1,264	27	Lodz.
Scarlet fever.....	241	38	Stanislawow.
Smallpox.....	6	-----	-----
Tuberculosis.....	150	229	Krakow; Lwow; Warsaw City.
Typhoid fever.....	297	29	Krakow.
Typhus fever.....	466	33	Lwow; Stanislawow.
Typhus fever, recurrent.....	101	2	Lublin; Volhynia
Whooping cough.....	99	10	Warsaw City.

## Dysentery—January 28–February 10, 1923.

During the period January 28 to February 10, 1923, 41 cases of dysentery with 6 deaths, occurring in the districts of Lodz and Stanislawow and the city of Warsaw, were reported in Poland.

## SYRIA.

## Lethargic Encephalitis—Typhus Fever—Beirut.

During the period March 11–20, 1923, a case of lethargic encephalitis was reported at Beirut.

During the period January 1 to March 31, 1923, 83 cases of typhus fever were reported at Beirut.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.**

The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

**Reports Received During Week Ended May 25, 1923.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Feb. 18-Mar. 3, 1923: Cases, 1,848; deaths, 1,230.

**PLAGUE.**

Ceylon:				
Colombo.....	Apr. 1-7.....	4	2	Plague rodents, 4.
India:				
Bombay.....	Mar. 18-24.....	155	131	
Karachi.....	Apr. 8-14.....	25	17	
Madras Presidency.....	do.....	300	154	
Hawaii:				
Pohakes.....				Apr. 15, 1923: Plague-infected rat.

**SMALLPOX.**

Brazil:				
Bahia.....	Mar. 18-31.....	1	1	
Rio de Janeiro.....	Apr. 8-14.....	2		
British East Africa:				
Mombasa.....	Mar. 25-31.....	1		
Tanganyika Territory.....	Feb. 25-Mar. 17.....	12		
Canada:				
Ontario.....				Apr. 1-30, 1923: Cases, 29.
China:				
Chungking.....	Apr. 1-7.....			Present.
Foochow.....	Mar. 18-31.....			Do.
Hongkong.....	Mar. 25-31.....	9	9	
Manchuria—				
Dairen.....	Apr. 2-8.....	1		
Harbin.....	do.....	1		
Shanghai.....	do.....	1	2	
Tientsin.....	Apr. 1-7.....	1		Reported by British municipality.
Egypt:				
Cairo.....	Jan. 29-Feb. 18.....	3		
Great Britain:				
Liverpool.....	Apr. 22-28.....	2		From s. s. Oak Branch, from South American ports.
Nottingham.....	Apr. 8-14.....	1		
Greece:				
Saloniki.....	Feb. 26-Apr. 1.....	3	4	
India:				
Bombay.....	Mar. 18-24.....	36	18	Feb. 18-Mar. 3, 1923: Cases, 3,750; deaths, 762.
Karachi.....	Apr. 8-14.....	14	3	
Madras.....	do.....	19	9	
Mexico:				
Chihuahua.....	Apr. 16-29.....	9	4	
Mexico City.....	Apr. 8-14.....	26		Including municipalities in Federal District.
San Luis Potosi.....	Apr. 29-May 5.....		1	
Vera Cruz.....	Apr. 30-May 6.....	1	1	
Poland.....				Jan. 28-Feb. 24, 1923: Cases, 30; deaths, 12.
Portugal:				
Lisbon.....	Apr. 9-22.....	23	3	
Spain:				
Valencia.....	Apr. 15-21.....	4		
Switzerland:				
Berne.....	Apr. 8-14.....	1		
Zurich.....	Apr. 15-21.....	13		
Union of South Africa:				
Transvaal.....	Mar. 25-31.....			Outbreaks.
Yugoslavia:				
Croatia—				
Zagreb.....	Apr. 1-7.....	2		
On vessel:				
S. S. Oak Branch.....	Apr. 22-23.....	2		At Liverpool, from South American ports. (Iquique, Chile, Mar. 17; Balboa, Apr. 1, 1923.)

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received During Week Ended May 25, 1923—Continued.****TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	Apr. 2-8.....	1	.....	
Manchuria—				
Harbin.....	Mar. 26-Apr. 1....	1	.....	
Egypt:				
Cairo.....	Jan. 29-Feb. 11....	3	1	
Greece:				
Saloniki.....	Mar. 5-Apr. 1.....	16	2	Recurrent typhus fever, Mar. 12-Apr. 1, 1923: Cases, 4; deaths, 1.
Palestine:				
Jaffa.....	.....			Apr. 17-23, 1923: One case relapsing fever.
Poland.....	.....			Jan. 28-Feb. 24, 1923: Cases, 1,690; deaths, 125. Recurrent fever: Cases, 396; deaths, 12.
Syria:				
Beirut.....	Jan. 1-Mar. 31....	83	.....	
Tunis:				
Tunis.....	Apr. 16-22.....		1	
Union of South Africa:				
Cape Province.....	Mar. 25-31.....			Outbreaks.
Natal.....	.....do.....			Do.
Orange Free State.....	.....do.....			Do.
Yugoslavia:				
Croatia—				
Zagreb.....	Apr. 1-7.....	2	.....	

**YELLOW FEVER.**

Brazil:				
Bahia.....	Mar. 11-Apr. 14...	36	14	

**Reports Received from December 30, 1922, to May 18, 1923.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Liutaoku.....	Sept. 22.....	60	20	
Chosen (Korea):				
Yalu River Region.....	.....			Sept. 22, 1922: 30 deaths reported.
India.....				Sept. 24-Dec. 30, 1922: Cases, 14,637; deaths, 8,833. Dec. 31, 1922-Feb. 17, 1923: Cases, 5,449; deaths, 3,407.
Bombay.....	Oct. 27-Dec. 23....	2	1	
Do.....	Feb. 4-Mar. 17....	3	3	
Calcutta.....	Nov. 12-Dec. 30....	102	60	
Do.....	Dec. 31-Apr. 7....	351	244	
Madras.....	Nov. 19-Dec. 16....	4	2	
Do.....	Jan. 21-Apr. 7....	13	6	
Rangoon.....	Nov. 12-Dec. 23....	17	10	
Do.....	Dec. 31-Mar. 24....	11	6	
Philippine Islands:				
Province—				
Laguna.....	Oct. 12-18.....	1	.....	
Zamboanga.....	Feb. 11-17.....	1	1	
Russia.....				Jan. 1-Oct. 7, 1922: Cases, 83,367.
Archangel (Government).....	Oct. 1-7.....	7	.....	
Moscow.....	Jan. 1-31.....	1	.....	
Tashkent.....	Oct. 1-7.....	27	.....	Turkestan Republic: 3 cases reported on waterways.
Ukraine.....				Sept. 1-30, 1922: Cases, 119.
Donetz (Government).....	Sept. 1-30.....	29	.....	
Tchernigov (Government).....	.....do.....	36	.....	
Siam:				
Bangkok.....	Oct. 29-Dec. 23....	4	1	
Do.....	Dec. 31-Feb. 24....	5	1	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **PLAGUE.**

Place.	Date.	Cases.	Deaths.	Remarks.
Argentina:				
Rosario.....	Feb. 10-27.....	8	3	
Azores:				
Fayal Island—				
Castelo Branco.....	Dec. 2-31.....		3	Vicinity of Horta. Dec. 30, 1922.
Do.....	Mar. 12-18.....	2		Several cases.
Horta.....	Mar. 23.....	1		Actual occurrence about Mar. 6, 1923.
Pico Island—				
Lages.....	Nov. 27-Dec. 15.....		8	
St. Michaels Island.....				
Ponta Delgada.....	Nov. 26-Dec. 9.....	3		Nov. 12-Dec. 30, 1922: Cases, 100; deaths, 35. At localities 3-9 miles from Ponta Delgada, Dec. 31, 1922-Feb. 24, 1923: Cases, 126; deaths, 52. From 6 to 20 miles distant from port of Ponta Delgada.
Brazil:				
Bahia.....	Oct. 29-Dec. 30....	5	5	
Do.....	Jan. 28-Feb. 3.....	1	1	
Pernambuco.....	Jan. 14-20.....	3	2	
Porto Alegre.....	Nov. 19-25.....	1		
British East Africa:				
Kenya Colony—				
Tanganyika Territory.....	Oct. 15-Dec. 16....	12	7	
Do.....	Jan. 14-Feb. 10....	11	10	
Uganda.....				
Entebbe.....	Nov. 24-30.....	211	202	Dec. 1-31, 1922: Cases, 141; deaths, 129. Jan. 1-31, 1923: Cases, 73; deaths, 73.
Canary Islands.....				Jan. 15-Mar. 17, 1923: Cases, 8; deaths, 7. Apr. 13, 1923: Present. Rodent plague present, Feb.-Mar., 1923.
Celebes:				
Macassar.....	Feb. 15.....			Present, bubonic; epidemic, pneumonic.
Ceylon:				
Colombo.....	Nov. 12-Dec. 30....	46	38	Plague rodents, 16.
Do.....	Dec. 31-Mar. 31....	77	67	Plague rodents, 24.
Chile:				
Antofagasta.....				Quarantine. Year, 1922: March, 1 case; May, 1 case.
China:				
Hongkong.....	Nov. 5-Dec. 23....	14	12	
Do.....	Dec. 31-Mar. 3.....	3	2	
Manchuria—				
Harbin.....	Jan. 29-Feb. 4.....	7		
Ecuador:				
Guayaquil.....	Nov. 1-Dec. 31....	9	3	Rats examined, 21,000; found infected, 90.
Do.....	Jan. 1-Apr. 15....	25	11	Rats examined, 22,400; found infected, 116.
Sabanilla.....	Mar. 1-15.....	1		Country estate.
Egypt:				
City—				
Alexandria.....	Nov. 19-25.....	2		Jan. 1-Dec. 28, 1922: Cases, 485; deaths, 228. Jan. 1, 1922-Jan. 4, 1923: Cases, 487; deaths, 228.
Do.....	Jan. 8-10.....	1	1	Jan. 1-Mar. 29, 1923: Cases, 134; deaths, 69. Mar. 19-25, 1922: Cases, 50—Assiout, 29; Fayoum, 4; Girgeh, 17.
Port Said.....	Nov. 19-27.....	4	2	
Do.....	Jan. 26-Mar. 5.....	2	1	
Suez.....	Nov. 18-Dec. 5.....	3	4	
Do.....	Mar. 2.....	1	1	
Province—				
Assiout.....	Nov. 19-Dec. 29....	4	1	Septicemic: 1 case, 1 death.
Do.....	Jan. 26-Mar. 29....	56	28	Cases: Pneumonic, 8 cases, 4 deaths; bubonic, 36 cases; septicemic, 5 cases, 1 death.
Dakahlieh.....	Dec. 3.....	1	1	Pneumonic.
Fayoum.....	Mar. 25-28.....	3	1	Bubonic.
Girgeh.....	Mar. 24-27.....	6	4	Bubonic, 4; septicemic, 2.
Kena.....	Mar. 8.....	1	1	Pneumonic, 1 death.
Minieh.....	Nov. 18-27.....	2	1	
Do.....	Feb. 24.....		1	
Hawaii:				
Honokaa.....				Feb. 8-9, 1923: Plague rats, 3.
Do.....				Mar. 24-25, 1923: Plague rats, 2. In vicinity Pacific Sugar Co. near Honokaa.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India.</b>				
Bombay.....	Oct. 27-Dec. 30....	41	32	Oct. 1-Dec. 30, 1922: Cases, 25,007; deaths, 18,803. (Report for Nov. 19-25, 1922, not received.) Dec. 31, 1922-Mar. 17, 1923: Cases, 64,004; deaths, 57,686.
Do.....	Dec. 31-Mar. 17....	273	224	
Calcutta.....	Feb. 11-Apr. 7.....	22	22	
Karachi.....	Dec. 10-16.....	1	1	
Do.....	Dec. 31-Apr. 7.....	97	78	
Madras Presidency.....	Nov. 19-Dec. 30....	2,269	1,448	
Do.....	Dec. 31-Apr. 7.....	5,214	4,829	
Madras.....	Nov. 19-25.....	1	1	
Do.....	Jan. 21-27.....	1	1	
Rangoon.....	Nov. 12-Dec. 30....	52	49	
Do.....	Dec. 31-Mar. 24....	321	295	
<b>Iraq (Mesopotamia):</b>				
Bagdad.....	Oct. 1-Nov. 30....	16		Among Beni-Tenim tribes in vicinity. Locality about 30 miles from Bagdad.
Do.....	Jan. 1-Feb. 28.....	11		
Sumaichah.....	Mar. 14.....		30	
<b>Japan:</b>				
Osaka.....				July 1-Nov. 30, 1922: Cases, 70.
<b>Java.</b>				Oct. 1-Nov. 3, 1922: Cases, 900; deaths, 763. Jan. 1-Feb. 28, 1923: Cases, 1,308; deaths, 1,367.
East Java.....				Dec. 1-31, 1922: Deaths, 990.
Residences—				
Pekalongan.....	Dec. 1-31.....	56		
Samarang.....	do.....	202		
Soerabaya.....	Oct. 22-Dec. 31....	34	14	
Do.....	Jan. 14-20.....	2	2	Jan. 17-23, 1923: Cases, 5; deaths, 3.
Toeleng-Agoeng.....	Oct. 29-Dec. 16....	18	18	Not a seaport.
Soerakarta—				
Klaten.....	Nov. 4.....			Present in epidemic form.
<b>Madagascar.</b>				Jan. 1-Dec. 10, 1923: Cases, 143.
Provinces—				Jan. 1-Mar. 15, 1923: Cases, 159; deaths, 108.
Antsirabe.....	Jan. 16-Feb. 15....	2	2	Bubonic and septicemic.
Diego Suarez.....	Jan. 1-Mar. 15....	5	3	Do.
Moramanga.....				To Nov. 12, 1922: Cases, 24; deaths, 21. Cases reported to Oct. 30, pneumonic.
Amparafara region.....	Sept. 18-Nov. 5....	21		Bubonic, 18; septicemic, 3 (doubtful, 2).
Moramanga.....	Dec. 6-9.....	3		Bubonic.
Tamatave.....	Feb. 10-Sept. 12....	10		Do.
Do.....	Mar. 1-15.....	1	1	Septicemic.
Miarinarivo.....				Dec. 14, 1922-Jan. 1, 1923: 1 case (European).
Tananarive.....				Jan. 1-Dec. 10, 1922: Cases, 73 (bubonic, 37; pneumonic, 8; septicemic, 28). Jan. 1-Mar. 15, 1923: Cases, 130; deaths, 95. Bubonic, pneumonic, septicemic.
Ambohimanga-keley.....	Nov. 19-Dec. 9....	9		Bubonic, 3; pneumonic, 3; septicemic, 3.
Anketrina.....	Mar. 27-May 9.....	11		Bubonic, 4; pneumonic, 2; septicemic, 5 (3 doubtful).
Fenoarivo region.....	Oct. 7-Nov. 28.....	16		Bubonic, 3; pneumonic, 8; septicemic, 5.
Tananarive.....	Oct. 23-Dec. 10....		5	1 septicemic.
Do.....	Dec. 14-Feb. 28....	23	7	Bubonic and septicemic.
<b>Mauritius.</b>				Year 1922: Cases, 98; deaths, 73. January, 1923: Cases, 18.
<b>Mexico:</b>				
Tampico.....	Mar. 23.....	2	1	Plague rodent found, Mar. 14, 1923.
<b>Palestine:</b>				
Jaffa.....	Nov. 27-Dec. 4....	1		
<b>Peru</b>				
Do.....				Nov. 1-Dec. 31, 1922: Cases, 199; deaths, 53.
Localities—				Jan. 1-Mar. 31, 1923: Cases, 350; deaths, 166.
Barranco.....	Feb. 1-15.....	1		
Callao.....	Mar. 1-31.....	1		
Canete.....	Nov. 16-Dec. 31....	56	19	Including vicinity.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued.				
Localities—Continued.				
Canete.....	Jan. 1-Mar. 31.....	36	18	Including vicinity. At Campina.
Casma.....	Jan. 1-31.....	1	1	
Catacaos.....	Jan. 1-Mar. 31.....	10	3	Present, Nov. 9-15, 1922.
Chepen.....	Dec. 16-31.....	2	1	
Do.....	Jan. 1-Mar. 31.....	2	2	
Chiclayo (city and country).....	Nov. 16-Dec. 15.....	17	7	
Do.....	Jan. 1-Mar. 31.....	35	17	
Cutervo.....	Feb. 16-Mar. 31.....	28	33	
Eten.....	Nov. 16-Dec. 15.....	4	4	
Guadeloupe.....	Nov. 1-Dec. 31.....	22	12	
Do.....	Jan. 1-31.....	4	1	
Huacho.....	Nov. 16-Dec. 31.....	4	2	
Do.....	Jan. 1-Mar. 31.....	25	5	
Huara.....	Jan. 1-Feb. 15.....	8	1	Country.
Huara.....	Nov. 16-30.....	1	1	
Do.....	Jan. 1-Feb. 28.....	4	2	
Huarmey.....	Dec. 1-31.....	2	2	
Do.....	Feb. 1-15.....	9	9	
Jayanca.....	Nov. 16-Dec. 31.....	10	8	
Lambayeque.....	do.....	7	3	
Do.....	Jan. 1-Feb. 15.....	10	7	
Lima (city).....	Nov. 1-Dec. 31.....	11	8	
Do.....	Jan. 1-Mar. 31.....	8	2	
Lima (country).....	Nov. 1-Dec. 31.....	14	5	
Do.....	Jan. 1-Mar. 31.....	9	4	
Lurin.....	Dec. 1-15.....	1	1	
Magdalena del Mar.....	Nov. 16-30.....	1	1	
Do.....	Jan. 1-31.....	1	1	
Magdalena Vieja.....	Dec. 16-31.....	1	1	
Mala.....	Dec. 1-31.....	2	2	
Do.....	Jan. 1-31.....	4	2	
Miraflores.....	Jan. 1-Feb. 15.....	5	2	
Mochumi.....	Dec. 16-31.....	3	3	
Do.....	Feb. 1-Mar. 31.....	6	2	
Mollendo.....	Mar. 1-31.....	1	1	
Monsefu.....	Feb. 1-15.....	5	3	
Mosche.....	Nov. 16-30.....	2	1	
Paíta.....	Dec. 16-31.....	3	2	
Do.....	Jan. 1-Mar. 31.....	17	12	
Piura.....	Nov. 16-Dec. 31.....	12	7	
Do.....	Jan. 1-Mar. 31.....	23	10	
Pueblo Nuevo.....	Dec. 1-31.....	7	4	
Do.....	Jan. 1-31.....	10	6	
San Pedro.....	Nov. 1-Dec. 31.....	8	4	
Do.....	Jan. 1-Feb. 28.....	7	4	
Santa Cruz (Hualgayoc).....	Feb. 16-28.....	9	9	
Sullana.....	Nov. 16-30.....	3	3	
Do.....	Jan. 1-31.....	1	1	
Trujillo.....	Nov. 1-Dec. 31.....	3	1	
Do.....	Jan. 1-Mar. 31.....	66	17	District.
Tuman.....	Nov. 16-30.....	3	3	
Portugal:				
Lisbon.....	Nov. 10-29.....	4	2	
Oporto.....	Jan. 21-27.....	1	1	
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 1-Dec. 30.....	45	45	Fatal cases among white population.
Do.....	Dec. 31-Feb. 3.....	2	2	
Russia:				
Kirghiz Republic.....				Dec. 2, 1922-Feb. 16, 1923: Cases, 116 (pneumonic), occurring in 2 out of 6 governments.
Siam:				
Bangkok.....	Nov. 12-Dec. 23.....	5	5	
Do.....	Dec. 31-Mar. 10.....	76	62	
Spain:				
Barcelona.....	Nov. 15-Dec. 18.....	1	1	Sept. 24-Nov. 14, 1922: Cases, 23; deaths, 9.
Malaga.....	Jan. 27.....	3	3	
Straits Settlements:				
Singapore.....	Dec. 17-23.....	2	2	17 suspected cases.
Do.....	Jan. 21-Mar. 24.....	10	9	
Syria:				
Beirut.....	Nov. 6-30.....	4	3	
Tunis:				
Ben-Gardane.....	Apr. 21.....	21	21	



# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey:				
Constantinople.....	Nov. 22-28.....	2	.....	
Do.....	Jan. 28-Feb. 10.....	2	.....	
Union of South Africa:				
Transvaal—				
Klipfontein Farm.....	Dec. 16.....	2	1	Natives. Jan. 25, 1923: Plague-infected wild rodent found in vicinity.
West Africa:				
Senegal—				
Dakar.....	Feb. 1-28.....	2	2	
On vessels:				
S. S. Helcion.....	Dec. 1.....	1	.....	At Thursday Island Quarantine, Australia, from Singapore, Straits Settlements. In Chinese firemen.
S. S. —.....	Dec. 30.....	.....	.....	At port of London: Plague-infected rats and cats found in grain cargo on vessel from South America.

## **SMALLPOX.**

Algeria:				
Algiers.....	Dec. 1-10.....	1	.....	
Do.....	Jan. 1-Mar. 31.....	4	.....	
Arabia:				
Aden.....	Nov. 19-Dec. 23...	7	3	
Do.....	Jan. 7-Mar. 31.....	23	2	
Barbados (West Indies).....	Apr. 26.....	.....	.....	Present. (Reported as alastrim.)
Bolivia:				
La Paz.....	Jan. 1-Mar. 31.....	17	15	
Brazil:				
Bahia.....	Nov. 5-11.....	1	.....	
Do.....	Mar. 4-10.....	1	.....	
Para.....	Feb. 12-Mar. 25...	14	.....	
Pernambuco.....	Jan. 21-Mar. 31.....	12	2	
Rio de Janeiro.....	Nov. 25-Dec. 30...	40	15	
Do.....	Dec. 31-Apr. 7....	54	25	
Sao Paulo.....	Oct. 16-22.....	1	1	
Do.....	Jan. 8-Feb. 18.....	5	1	
British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Oct. 8-Dec. 23.....	193	10	
Do.....	Jan. 7-Feb. 24.....	44	2	
Uganda.....	Sept. 1-Dec. 31...	3	1	Jan. 1-31, 1923: Cases, 3; deaths, 1.
Entebbe.....	Nov. 24-30.....	3	3	
Canada:				
Alberta—				
Calgary.....	Mar. 4-10.....	1	.....	
British Columbia—				
Fernie.....	Mar. 18-24.....	1	.....	
Manitoba—				
Winnipeg.....	Dec. 10-30.....	14	.....	
Do.....	Jan. 21-Apr. 21...	66	.....	
New Brunswick—				
Northumberland County.	Jan. 21-Feb. 17...	8	.....	
Restigouche County....	Mar. 11-17.....	1	1	
Ontario.				
Hamilton.....	Dec. 31-Feb. 24...	7	.....	Dec. 1-31, 1922: Cases, 51; deaths, 1.
Niagara Falls.....	Dec. 3-30.....	10	.....	1. Jan. 1-Mar. 31, 1923: Cases, 92.
Do.....	Dec. 31-May 5....	17	.....	
Ottawa.....	Dec. 10-23.....	6	.....	
Do.....	Jan. 7-Mar. 31.....	21	1	
Toronto.....	Dec. 10-30.....	2	.....	
Do.....	Feb. 4-10.....	1	.....	
Quebec—				
Quebec.....	Jan. 14-20.....	3	.....	
Sherbrooke.....	Mar. 1-31.....	.....	2	
Saskatchewan—				
Regina.....	Dec. 3-23.....	2	.....	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Nov. 12-Dec. 24....	9	4	1 case, 1 death outside city.
Do.....	Feb. 18-Mar. 10....	3		
Chile:				
Antofagasta.....	Apr. 1-7.....	1		
Concepcion.....	Oct. 30-Dec. 25....		7	
Do.....	Feb. 1-Mar. 12....	3	1	
Valparaiso.....	Oct. 2-Dec. 30....		153	In hospital Dec. 26, 1922, 83 cases. Deaths, 66. Feb. 16, 1923: 80 cases present (estimated). Jan. 20-Mar. 18, 1923: Deaths, 103.
Do.....	Jan. 9-Feb. 10....		90	
China:				
Amoy.....	Nov. 5-Dec. 23....		3	Nov. 26-Dec. 30, 1922: Present.
Do.....	Jan. 7-Mar. 31....		11	
Antung.....	Nov. 13-Dec. 10....	2		
Do.....	Feb. 26-Mar. 4....	1		
Canton.....	Oct. 1-Nov. 30....			Prevalent. Present.
Do.....	Jan. 21-Feb. 17....			
Changsha.....	Feb. 11-17.....	1		
Chungking.....	Nov. 5-Dec. 30....			Do.
Do.....	Dec. 31-Mar. 24....			Do.
Foochow.....	Nov. 12-Dec. 30....			Do.
Do.....	Dec. 31-Mar. 17....			Do.
Hankow.....	Dec. 31-Jan. 20....	4	1	
Hongkong.....	Nov. 5-11.....		1	
Do.....	Dec. 31-Mar. 17....	29	19	
Manchuria—				
Harbin.....	Nov. 20-Dec. 31....	13		
Do.....	Jan. 8-Mar. 18....	8		
Mukden.....	Nov. 19-Dec. 16....			Do.
Do.....	Jan. 7-Feb. 3....			Do.
Nanking.....	Nov. 5-Dec. 23....			Do.
Do.....	Jan. 7-Apr. 14....			Do.
Shanghai.....	Jan. 15-Apr. 15....	6	5	Cases, foreign. Deaths, Chinese. Reported from foreign office.
Tientsin.....	Feb. 18-21.....	1		
Chosen (Korea):				
Chemulpo.....	Oct. 1-Dec. 31....	135	92	
Do.....	Jan. 1-Mar. 31....	40	21	
Fusan.....	Nov. 1-Dec. 31....	4		
Do.....	Jan. 1-Mar. 31....	15	2	
Gensan.....	Dec. 1-31.....	6	2	
Do.....	Mar. 1-31.....	2	1	
Seoul.....	Oct. 1-Dec. 31....	19	1	
Do.....	Jan. 1-Mar. 31....	91	34	
Colombia:				
Buenaventura.....	Jan. 25-Feb. 20....	48		Estimated, 50 cases present; type mild; among colored population. Feb. 16-23, 1923: 6 to 9 cases 2 miles from town limits. Mild outbreak.
Santa Marta.....	Apr. 18.....			
Cuba:				
Province—				
Camaguey.....	Nov. 11-Dec. 31....	20		
Matanzas.....	Jan. 1-31.....	2		
Oriente.....	Nov. 21-Dec. 31....	22		
Do.....	Jan. 1-Feb. 10....	10		
Santa Clara.....	Dec. 21-31.....	1		
Czechoslovakia.				
Province—				
Bohemia.....	Oct. 1-31.....	1		Oct. 1-31, 1922: Cases, 3. Jan. 1-31, 1923: Cases, 3.
Moravia.....	do.....	1		
Slovakia.....	Oct. 1-Nov. 30....	2		
Dominica (West Indies).....				Feb. 26, 1923: Present with several thousand cases (estimated). Reported as alastrim.
Dominican Republic:				
Puerto Plata.....	Dec. 14-30.....	2		
Santo Domingo.....	Dec. 3-16.....			Present.
Do.....	Feb. 28-Mar. 6....	3		
San Pedro de Macoris.....	Jan. 13-19.....	2		
Ecuador:				
Babahoyo.....	Apr. 1-15.....	1		
Guayaquil.....	Dec. 1-31.....	10		
Do.....	Jan. 1-Feb. 23....	11		

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Egypt:</b>				
Alexandria.....	Feb. 19-25.....	1	.....	
Port Said.....	Jan. 21-27.....	1	.....	
Esthonia.....				Oct. 1-Dec. 31, 1922: Cases, 61. Jan. 1-Feb. 28, 1923: Cases, 25.
<b>France:</b>				
Paris.....	Dec. 1-10.....	1	.....	
Do.....	Mar. 4-10.....	1	.....	
<b>Germany:</b>				
Bremen.....	Dec. 3-9.....	1	.....	
<b>Great Britain:</b>				
Liverpool.....	Dec. 11-17.....	1	.....	From vessel.
London.....	Nov. 26-Dec. 23...	3	.....	
Nottingham.....	Nov. 19-Dec. 13...	4	.....	
Do.....	Jan. 7-Mar. 10.....	16	.....	
<b>Greece:</b>				
Kalamata.....	Jan. 13-Feb. 13.....		1	
Patras.....	Jan. 21-Feb. 17.....		84	
Saloniki.....	Nov. 6-Dec. 31.....	6	5	
Do.....	Jan. 15-Feb. 18.....	9	1	
Zante.....				Epidemic, Jan. 17, 1923.
Do.....	Jan. 7-14.....	13	4	
<b>Guadeloupe (West Indies)</b> .....				Feb. 26, 1923: Present. Reported as alastrim.
<b>Guatemala:</b>				
Guatemala City.....	Feb. 23.....			Present.
<b>Honduras</b> .....				Apr. 17, 1923: Outbreak in interior.
<b>India</b> .....				Nov. 5-Dec. 30, 1922: Cases, 5,783; deaths, 333. Dec. 31, 1922-Feb. 17, 1923: Cases, 12,751; deaths, 3,254.
Bombay.....	Nov. 5-Dec. 30.....	22	10	
Do.....	Dec. 31-Mar. 17.....	228	106	
Calcutta.....	Nov. 12-Dec. 30.....	46	23	
Do.....	Dec. 31-Mar. 24.....	178	94	
Karachi.....	Nov. 26-Dec. 30.....	6	.....	
Do.....	Dec. 31-Apr. 7.....	59	28	
Madras.....	Nov. 12-Dec. 30.....	71	23	
Do.....	Dec. 31-Apr. 7.....	306	95	
Rangoon.....	Nov. 5-Dec. 30.....	27	6	
Do.....	Jan. 7-Mar. 24.....	265	97	
<b>Iraq (Mesopotamia):</b>				
Bagdad.....	Oct. 1-Nov. 30.....	568	361	
Do.....	Jan. 1-Feb. 28.....	32	50	
<b>Italy:</b>				
Turin.....	Jan. 29-Mar. 18.....	21	.....	
Genoa.....	Apr. 1-10.....	1	.....	From vessel.
<b>Jamaica</b> .....				Dec. 31, 1922-Apr. 14, 1923: Cases, 652. Previously reported as alastrim.
Kingston.....	Mar. 11-Apr. 14.....	8	.....	
<b>Japan:</b>				
Kobe.....	Jan. 13-Apr. 3.....	7	2	
Taiwan Island.....	Mar. 4-10.....	1	1	
Yokohama.....	Jan. 22-Mar. 25.....	2	.....	
<b>Java:</b>				
East Java—				
Soerabaya.....	Nov. 5-11.....	4	.....	
Do.....	Feb. 4-Mar. 10.....	5	1	
West Java—				
Batavia.....	Nov. 11-Dec. 22.....	25	1	City and Province.
Do.....	Jan. 27-Mar. 30.....	18	2	Province.
<b>Latvia</b> .....				Oct. 1-Dec. 31, 1922: Cases, 7.
<b>Martinique</b> .....				Mar. 31, 1923: Present. Reported as alastrim.
<b>Mexico:</b>				
Chihuahua.....	Dec. 4-17.....		4	
Do.....	Jan. 1-Apr. 15.....	61	22	
Guadalajara.....	Dec. 1-31.....	4	.....	
Do.....	Jan. 1-Mar. 31.....	74	23	
Mexico City.....	Nov. 12-Dec. 23.....	43	.....	Including municipalities in Federal District.
Do.....	Dec. 31-Apr. 7.....	273	.....	Do.
Nogales.....	Dec. 10-19.....		1	
Do.....	Dec. 31-Feb. 10.....		2	
Saltillo.....	Jan. 28-Feb. 3.....		1	
San Luis Potosi.....	Jan. 14-20.....		1	
Sonora, State.....				Nov. 1-30, 1922: Present in northern section.
Empalme.....	Nov. 1-30.....	4	1	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Tabasco, State.....				Present in some localities Mar. 26, 1923.
Torreón.....	Dec. 1-31.....		1	
Vera Cruz.....	Feb. 26-Apr. 8.....	12	5	
Palestine.....				Jan. 23-Feb. 19, 1923: Cases, 8; northern district.
Persia:				
Tabriz.....	Dec. 18-31.....		2	
Do.....	Jan. 15-Feb. 28.....		5	
Tehran.....	Oct. 24-Dec. 22.....		139	
Do.....	Dec. 20-Jan. 20.....		56	
Peru.....				Feb. 1-28, 1923: Cases, 8; deaths, 1.
Callao.....	Nov. 1-15.....	2		
Lima (city).....	Dec. 1-15.....	3	1	
Do.....	Mar. 1-31.....	2	2	
Lima (country).....	Nov. 1-15.....	2	1	
Do.....	Feb. 16-28.....	2		City and country.
Poland.....				Oct. 1-Dec. 23, 1922: Cases, 132; deaths, 26. Jan. 1-27, 1923: Cases, 70; deaths, 7.
Portugal:				
Lisbon.....	Nov. 19-Dec. 30.....	143	34	
Do.....	Dec. 31-Apr. 14.....	177	85	Dec. 25-31, 1922: Deaths, 12;
Oporto.....	Oct. 15-Dec. 30.....	24	12	Mar. 26-Apr. 7, 1923: Cases, 11; deaths, 5.
Do.....	Dec. 31-Apr. 14.....	24	11	Jan. 5-20, 1923: Cases, 22; deaths, 6.
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 27-Nov. 11.....		10	
Rumania:				
Bucharest.....	Feb. 1-10.....	1		
Chisinau.....	Jan. 1-Feb. 28.....	26		
Galatz.....	Feb. 1-10.....	2		
Russia:				
City—				
Moscow.....				Jan. 1-31, 1923: Cases treated in hospital, 10.
Province—				Jan.-Sept., 1922: Cases, 8,744.
Ukraine.....				Present.
Santa Lucia Island.....	Apr. 26.....			
Siberia—				
Vladivostok.....	Mar. 1-31.....	1		Present in Nikolsk, Slassk, and Ussurisk Counties.
Sierra Leone:				
Freetown.....	Feb. 16-28.....	1		
Spain:				
Corunna.....	Nov. 26-Dec. 2.....		1	
Huelva.....	Nov. 24-Dec. 31.....		4	
Madrid.....	Dec. 1-31.....		1	
Do.....	Jan. 1-31.....		1	
Seville.....	Nov. 27-Dec. 31.....		32	
Do.....	Jan. 1-Mar. 11.....		16	
Valencia.....	Nov. 26-Dec. 23.....	3		
Do.....	Dec. 31-Apr. 14.....	52	3	
Switzerland:				
Basel.....	Feb. 23-Apr. 7.....	5		
Berne.....	Nov. 19-Dec. 30.....	85		
Do.....	Dec. 31-Apr. 7.....	182		
Lucerne.....	Jan. 1-Mar. 31.....	22		
Zurich.....	Nov. 19-Dec. 30.....	19		
Do.....	Jan. 14-Apr. 7.....	52		
Syria:				
Aleppo.....	Nov. 19-Dec. 23.....	38	20	
Do.....	Dec. 31-Apr. 14.....	30	6	
Beirut.....	Dec. 11-20.....	1		
Damascus.....	Nov. 1-Dec. 31.....	97	16	
Do.....	Jan. 1-Feb. 20.....	22		
Tunis:				
Tunis.....	Dec. 1-22.....	2	1	
Do.....	Jan. 22-Feb. 4.....	1	1	
Turkey:				
Constantinople.....	Nov. 19-Dec. 16.....	122	34	
Do.....	Dec. 31-Apr. 7.....	416	406	
Union of South Africa.....				Oct. 1-Dec. 31, 1922: Cases—Colored, 64; deaths, 1; white, cases, 4.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa.....				Jan. 1-Feb. 28, 1923: Cases, 34; colored, 30; white, 4; deaths, 3 (colored).
Cape Province.....				Oct. 1-Dec. 31, 1922: Cases—Colored, 48; deaths, 1; white, 4 cases.
Do.....				Jan. 1-Feb. 28, 1923: Cases, 22 (colored, 18; white, 4). Deaths, colored, 2.
Do.....	Dec. 31-Mar. 17...			Outbreaks.
East London.....	Jan. 7-13.....	2		
Natal.....				Dec. 1-31, 1922: Cases, 6 (colored). Jan. 1-Feb. 28, 1923: Cases, 7; deaths, 1 (colored).
Do.....	Feb. 4-10.....			Outbreaks.
Orange Free State.....				Dec. 1-31, 1922: Cases, 2 (colored).
Do.....	Jan. 1-31, 1923: Cases, 3 (colored).			Outbreaks.
Do.....	Jan. 14-Feb. 3.....			
Southern Rhodesia.....	Nov. 9-15.....	3		
Transvaal.....				Oct. 1-Dec. 31, 1922: Cases, 10.
Do.....	Jan. 1-Feb. 28, 1923: Cases, 2 (colored).			Outbreaks.
Do.....	Dec. 31-Mar. 17...			
Johannesburg.....	Nov. 1-30.....		1	
Do.....	Jan. 1-31.....	1		
Uruguay:				
Montevideo.....	do.....	8		
Yugoslavia.....				Aug. 1-31, 1922: Cases, 30; deaths, 12.
Do.....				Dec. 31, 1922-Mar. 24, 1923: Cases, 567; deaths, 100.
Bosnia-Herzegovina.....				Dec. 31, 1922-Mar. 24, 1923: Cases, 266; deaths, 35.
Serbia.....				Aug. 1-31, 1922: Cases, 26. Dec. 31-Mar. 24, 1923: Cases, 70; deaths, 21.
Belgrade.....	Nov. 12-Dec. 31...	10	4	
Do.....	Mar. 18-24.....	1	1	
On vessel:				
S. S. Bahia.....	Mar. 4-10.....	1		At Pernambuco, Brazil.
S. S. Huntress.....	Nov. 11.....	1		At Fremantle, Australia; from Cape Town, South Africa.
S. S. Junin.....	Jan. 13.....	1		At Antofagasta, Chile. Vessel proceeded to Arica, Chile, with patient on board.
S. S. —.....	Dec. 17-23.....	1		At Liverpool.
S. S. Tenyo Maru.....	Mar. 20.....	1		At Shanghai, China, from Japan. In steerage passenger.

## **TYPHUS FEVER.**

Algeria:				
Algiers.....	Nov. 11-Dec. 31...	2	1	
Do.....	Jan. 1-Mar. 31...	41	10	
Oran.....	Jan. 11-20.....	1	1	
Austria:				
Vienna.....	Jan. 7-17.....	1		
Bolivia:				
La Paz.....	Jan. 1-Mar. 31...	31	24	
Brazil:				
Pernambuco.....	Dec. 3-9.....	2	2	
Porto Alegre.....	Nov. 19-Dec. 16...	3		
Do.....	Feb. 25-Mar. 3.....		3	
Bulgaria:				
Sofia.....	Feb. 4-Apr. 7.....	6		Paratyphus, 4 cases; 1 death.
Chile:				
Antofagasta.....	Nov. 12-Dec. 30...	24	5	Nov. 11-Dec. 5, 1922: Cases, 10; deaths, 2. Quarantine station: October, 1922-1 fatal case on vessel from Valparaiso; November, 1922-cases, 7; December, 1922-cases, 9; remaining, Dec. 31, 3 cases.
Do.....	Dec. 31-Apr. 7.....	4	2	
Concepcion.....	Oct. 17-Dec. 18.....		9	
Do.....	Dec. 26-Feb. 28.....		10	
Iquique.....	Jan. 14-Mar. 31...		3	
Talcahuano.....	Nov. 12-Dec. 23...	10	6	
Do.....	Jan. 7-Mar. 17.....	7		
Valparaiso.....	Dec. 3-30.....		9	
Do.....	Dec. 31-Mar. 18.....		37	Daily hospital average, Feb. 16, 1923, 25 cases.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	Nov. 13-Dec. 10...	7	.....	
Manchuria.....				
Harbin.....	Nov. 20-26.....	7	.....	
Do.....	Jan. 1-Feb. 18.....	7	.....	
Cuba:				
Matanzas.....	Dec. 25-31.....	1	1	
Czechoslovakia.....				Jan. 1-31, 1923: Cases, 76.
City.....				
Prague.....	Nov. 19-25.....	1	.....	
Province.....				
Bohemia.....	Nov. 1-30.....	1	.....	
Ruthenia.....	Oct. 1-Dec. 31.....	25	.....	
Slovakia.....	Nov. 1-30.....	2	.....	
Danzig (Free City).....	Jan. 7-Feb. 24.....	2	.....	Including one from Poland.
Egypt:				
Alexandria.....	Nov. 19-Dec. 31.....	2	1	
Do.....	Jan. 22-Apr. 8.....	6	3	Imported, 1.
Cairo.....	Oct. 1-Dec. 31.....	19	9	
Do.....	Jan. 1-28.....	7	4	
Port Said.....	Mar. 25-31.....	1	.....	
Esthonia.....				Oct. 1-Dec. 31, 1922: Cases, 6. Recurrent typhus: Cases, 10. Year 1922: Cases, 159; recurrent typhus, 91 cases.
Do.....				Jan. 1-Feb. 28, 1923: Cases, 9
Libau.....	Dec. 24-30.....	1	.....	Recurrent typhus Jan. 1-31, cases, 4.
Narva.....				Year, 1922: Cases, 140; recurrent typhus: Cases, 83.
Finland.....				Feb. 16-Mar. 15, 1923: Cases, 7; recurrent typhus, 1.
France:				
Marseille.....	Mar. 1-31.....		1	
Germany:				
Berlin.....	Nov. 26-Dec. 2.....		1	
Coblenz.....	Dec. 10-16.....	1	.....	
Do.....	Mar. 25-31.....	1	.....	
Dresden.....	Dec. 10-16.....	1	.....	
Königsberg.....	Mar. 24-Apr. 7.....	2	.....	
Great Britain:				
Glasgow.....	Jan. 7-Feb. 17.....	4	1	
Greece:				
Athens.....	Mar. 1-20.....		4	
Corfu Island.....	Feb. 8.....			Present.
Leucadia.....	Jan. 17.....			Do.
Patras.....	Nov. 19-25.....		1	
Do.....	Jan. 1-Feb. 24.....	3	8	
Piræus.....				Jan. 13-Mar. 31, 1923: Deaths, 12.
Prevesa.....	Jan. 17.....			Present.
Saloniki.....	Dec. 18-24.....	3		Among refugees.
Do.....	Jan. 7-Feb. 25.....	79	4	Refugees.
Zante.....	Jan. 17.....			Present.
Guatemala:				
Guatemala City.....	Jan. 1-31.....		1	
Hungary:				
Budapest.....	Jan. 14-Apr. 7.....	24	4	
Iraq (Mesopotamia):				
Bagdad.....	Feb. 1-28.....	1	.....	
Ireland:				
Belmullet.....	June 15-Dec. 14.....	20	.....	In county Mayo.
Italy:				
Trieste.....	Feb. 26-Mar. 3.....	1	.....	
Latvia.....				Oct. 1-Dec. 31, 1922: Cases, 74; recurrent typhus: Cases, 10. Feb. 1-28, 1923: Cases, 37; recurrent typhus, 1 case; paratyphus, 1 case.
Mexico:				
Guadalajara.....	Mar. 1-31.....	1	.....	
Mexico City.....	Nov. 12-Dec. 30.....	90	.....	Including municipalities in Federal District.
Do.....	Dec. 31-Apr. 7.....	169	.....	Do.
San Luis Potosi.....	Jan. 28-Apr. 7.....		4	
Palestine.....				Dec. 5-25, 1922: Cases, 3; in northern section. Feb. 27-Mar. 5, 1923—1 case in northern section.
Jaffa.....	Dec. 12-18.....	2	.....	
Do.....	Jan. 16-Apr. 9.....	6	.....	
Jerusalem.....	Dec. 26-Jan. 1.....	1	.....	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 30, 1922, to May 18, 1923—(Continued.)**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Paraguay:				
Asuncion.....	Jan. 1-27.....		1	
Persia:				
Tabriz.....	Dec. 18-31.....		3	
Do.....	Jan. 15-23.....		1	
Toheran.....	Sept. 24-Nov. 24.....		3	
Do.....	Feb. 14-20.....		4	
Poland.....				Oct. 1-Dec. 23, 1922: Cases, 1,916; deaths, 130. Recurrent typhus: Cases, 2,071; deaths, 56. Jan. 1-27, 1923: Cases, 1,411; deaths, 127. Recurrent typhus: Cases, 501; deaths, 10.
Portugal:				
Lisbon.....	Mar. 26-Apr. 1.....		1	
Oporto.....	Oct. 15-Dec. 2.....	1	1	
Do.....	Mar. 11-17.....	3		
Rumania:				
Bucharest.....				To Jan. 31, 1923: Cases, 96; deaths, 13.
Do.....	Feb. 1-10.....	133		
Chisinau.....	Nov. 1-30.....	5		
Do.....	Jan. 1-Feb. 28.....	110		Recurrent typhus: Cases, 33.
Craiova.....	Feb. 1-10.....	1		
Russia:				July 30-Sept. 23, 1922: Cases, 23,803.
Moscow.....	Jan. 1-31.....	290		Undetermined cases, 38.
Ukraine.....	Jan.-Sept.....	307, 329		Provisional figures.
Ukraine, Tartar Republic, and Siberia.	June 1-30.....	35,926		
Do.....	July 1-31.....	17,262		Do.
Do.....	Aug. 1-31.....	6,864		Do.
Do.....	Sept. 1-30.....	2,388		Do.
Siberia:				
Vladivostok.....	Nov. 1-Dec. 31.....	5		Remittent, 1 case; indefinite, 6 cases.
Do.....	Jan. 1-Mar. 31.....	215		Remittent, 1 case; indefinite, 38.
Spain:				
Barcelona.....	Nov. 30-Dec. 27.....		3	
Do.....	Jan. 11-Mar. 28.....		2	
Madrid.....	Dec. 1-31.....		1	
Do.....	Feb. 1-28.....		1	
Syria:				
Aleppo.....	Dec. 10-16.....	1	1	
Do.....	Jan. 7-Apr. 14.....	101	22	Generally among refugees.
Beirut.....	Oct. 1-22.....	1		
Turkey:				
Constantinople.....	Nov. 27-Dec. 2.....	3		
Do.....	Dec. 31-Apr. 7.....	199	187	
Union of South Africa.				Oct. 1-Dec. 31, 1922: Colored—cases, 3,097; deaths, 298; white—cases, 11; deaths, 2.
Do.....				Jan. 1-Feb. 28, 1923: Total—cases, 1,050; deaths, 93. (Colored—cases, 1,037; deaths, 92; white—cases, 13; 1 death.)
Cape Province.....				Oct. 1-Dec. 31, 1922: Colored—cases, 2,799; deaths, 250; white—cases, 6; deaths, 1.
Do.....				Jan. 1-Feb. 28, 1923: Colored—cases, 853; deaths, 72; white—7 cases, 1 death.
Do.....				Outbreaks.
Port Elizabeth.....	Dec. 31-Mar. 17.....			
Natal.....	Jan. 28-Feb. 10.....	3		Oct. 1-Dec. 31, 1922: Colored—cases, 143; deaths, 32; white—cases, 2.
Do.....				Jan. 1-Feb. 28, 1923: Colored—cases, 38; deaths, 3; white—1 case.
Do.....				Outbreaks.
Orange Free State.....				Oct. 1-Dec. 31, 1922: Colored—cases, 91; deaths, 8; white—cases, 3; deaths, 1.
Do.....	Feb. 4-17.....			Jan. 1-Feb. 28, 1923: Colored—cases, 93; deaths, 7; white—2 cases.
Do.....				Outbreaks.
Do.....	Jan. 7-Mar. 3.....			

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from December 30, 1922, to May 18, 1923—Continued.****TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Contd.				
Transvaal.....				Oct. 1-Dec. 31, 1922: Colored—cases, 64; deaths, 8.
Do.....				Jan. 1-Feb. 28, 1923: Colored—cases, 53; deaths, 11; white—cases, 2.
Do.....	Jan. 14-Mar. 17.....			Outbreaks.
Johannesburg.....	Nov. 1-30.....	3	6	
Do.....	Jan. 1-Feb. 28.....	28	3	
Venezuela:				
Maracaibo.....	Jan. 21-27.....		1	
Yugoslavia.....				Dec. 31, 1922-Mar. 24, 1923: Cases, 106; deaths, 20.
Bosnia-Herzegovina.....	Aug. 1-31.....	1		
Do.....	Dec. 31-Mar. 24.....	51		Recurrent fever, 1 case.
Serbia.....				Aug. 1-31, 1922: Recurrent typhus fever: Cases, 4. Dec. 31-Mar. 24, 1923: Cases, 25.
Belgrade.....	Mar. 18-Apr. 7....	2		

**YELLOW FEVER.**

Brazil:				
Bahia.....	Dec. 31-Mar. 10....	46	11	
Mexico:				
Ciudad Victoria.....	Dec. 17-23.....	1		
Tampico.....	Jan. 15.....	1		Reported on bills of health.
West Africa:				
Gold Coast—				
Saltpond.....				Reported present Dec. 21, 1922.
Nigeria—				
Warrai.....				Do.